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Polic Polic Saveiro Saveiro SpaceFor Voyage 26 up! 2014 Chemicals Mar Edition 02.2016
                  Workshop Manual
                  Fox 2004 \rightarrow , Fox 2010 \rightarrow , Fox 2014 \rightarrow ,
                               , Gol 1999 ➤ , Gol 2006 ➤
                  Gol 2009 ➤ , Gol 2013 ➤ , Gol 2017 ➤
                  Golf 1999 ➤ . Golf 2007 ➤
                  Golf 2016 ➤ , Kombi 1997 ➤
                  Parati 1999 ➤ , Parati 2006 ➤ ,
                  Polo 2003 ➤ , Polo 2007 № ,
                  Polo 2012 ➤ , Polo Sedan 2003 ➤ ,
                  Polo Sedan 2007 ➤.
                  Polo Sedan 2012 ➤ , Santana 1991 ➤ ,
                  Saveiro 2000 ➤ , Saveiro 2006 ➤ , Saveiro 2010 ➤ , Saveiro 2014 ➤ ,
                  Saveiro 2017 ➤ , SpaceFox 2006 ➤ ,
                  SpaceFox 2011 ➤ , Voyage 2009 ➤ ,
                  Voyage 2013 ➤ , Voyage 2017 ➤ ,
                  Chemicals Manual
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Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

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Contents

00 -	COLL	iicai data	1
	1	Introduction	1
	2	List of Suppliers	2
	2.1		2
	2.2		2
	2.3		2
	2.4		2
	2.5		2
	2.6		2
	2.7		2
	2.8		2
	2.9		2
	2.10		2
	2.11	•	2
	2.12		2
	2.12		2
			2
	2.14		
			2
	2.16		2
	2.17		3
	2.18	Loctite Brasil Ltda	3
	2.19	Lumobras Imp. Comp. Ind. Ltda	3
	2.20		3
	2.21	Motul Synthetic Lubricants	3
	2.22		3
	2.23	Pentosin do Brasil Ltda	3
	2.24	Contract of the contract of th	3
			3
	2.26		3
	2.27	0	3
	2.28	C C	3
	2.29		3
	2.30		3
	2.31		3
	2.32		3
	2.33		4
	2.34		4
	2.35	Valvoline Lubrificantes Internacionais Ltda	4
	3.1 3.1	List of authorized products	5
	3.1 8	Assembly Adhesive	5
	3.2	Adhesive for polyurethane and polypropylene	5
	3.3	Resin adhesive Polyurethane-based sealing adhesive Instant adhesive Adhesive for sealing gaskets Permanent adhesive Adhesive for packings and linings	5
	3.4	Polyurethane-based sealing adhesive	5
	3.5	Instant/adhesive	5
	3.6	Adhesive for sealing gaskets	5
	3.7	Permanent adhesive	5
	3.8	Adhesive for packings and linings	6
	3.9	Polyurethane adhesive	6
	3.10		6
	3.11		6
	3.12		6
	3.13		6
	3.14		6
			1

Fox 2004 \succ , Fox 2010 \succ , Fox 2014 \succ , Gol 1995 \succ , Gol 1999 \succ , Gol ... Chemicals Manual - Edition 02.2016

3.15	Locking adhesive
3.16	Locking adhesive for mechanical seals
3.17	Medium torque locking adhesive 7
3.18	Adhesive for plastic cap gaskets
3.19	Metal-glass adhesive 7
3.20	Sealing adhesive 7
3.21	2-component adhesive 7
3.22	Universal adhesive
3.23	Additives for coolants - G11 7
3.24	Additives for coolants - G13 7
3.25	Additive for the windscreen/rear window washer reservoir
3.26	Additives for petrol
3.27	Activating agent for pre-laminated glass 8
3.28	Silicone rubber Filling and acoustic isolation foam Polyurethane adhesive tape Cotton tape Self-adhesive PVC tape Transferable adhesive tape Double-sided adhesive tape Double-sided acrylic foam adhesive tape
3.29	Filling and acoustic isolation foam 8
3.30	Polyurethane adhesive tape
3.31	Cotton tape 8
3.32	Self-adhesive PVC tape 8
3.33	Transferable adhesive tape
3.34	Sealing tape
3.35	Double-sided adhesive tape
3.36	Double-sided acrylic foam adhesive tape9
3.37	Medium density double-sided adhesive tape 9
3.38	Hydraulic brake fluid (DOF4)
3.39	Automatic transmission fluid
3.40	Refrigerant gas - R134a 9
3.41	Multi-purpose grease
3.42	Semi-fluid grease g 9
3.43	Multi-purpose grease . 2
3.44	Multi-purpose grease
3.45	Special lubrication grease
3.46	Polyalphaolefin-based low temperature grease
3.47	Lubricating grease 10
3.48	Complex grease 18
3.49	Graphite grease
2.50	Grease for front wheel cylinder support guide pin
3.51	Grease for gearbox side seals Lubricating grease Grease for electrical contacts Polyurea grease High temperature grease 11 12 13 14 15 16 17 17 18 19 18 19 19 19 19 19 19 19
3.52	Lubricating grease
3.53	Grease for electrical contacts
3.54	Polyurea grease 11
3.55	High temperature grease
3.56	Temperature resistant grease
3.57	Lubricating grease
3.58	Silicone based grease
3.59	Windscreen adhesive set
3.60	Windscreen adhesive set
3.61	Glass adhesion kit
3.62	Lithium-based lubricant
3.63	Adhesive paste and grey sealant
3.64	Adhesive material for glass
3.65	Sealing compound
3.66	Adhesive material for glass
3.67	Silicone paste
3.68	Mouldable paste for caulking
3.69	Lubricating paste for high temperatures
3.70	Lubricating paste for constant velocity joints
0.10	Europouring paste for constant velocity joints





3.71	Sealing compound	13
3.72	Sealing compound	13
3.73	Sealing compound	13
3.74	Paste for bucket protection	13
3.75	Sealing compound for engines	13
3.76	Sealing compound	13
3.77	Sealing compound for engine	13
3.78	Nyogel	13
3.79	Sealing compound for engine Nyogel Engine lubricant oil: Petrol, Ethanol, Totalflex and NGV - VW 502 00	14
3.80	Engine lubricant oil: Petrol, Ethanol, Totalflex and NGV - VW 502 00	14
3.81	Lubricating oil for diesel engistes - VW 505 00	15
3.82	Engine oil lubricant: Diesel VW 507 00	16
3.83	Engine lubricant oil: Petrol and Totalflex - VW 508 88	16
3.84	Diesel engine lubricant oil - VW 509 99	17
3.85	Lubricating oil for magual gearbox and steering box - SAE 90, MIL-L-2105B, API-GL5 🥞	17
3.86	Lubricating oil for manual gearbox - SAE 80, MIL-L-2105, API-GL4	17
3.87	Lubricating oil for manual gearbox - SAE 75W90	18
3.88	Lubricating oil for manual gearbox - SAE 75W90	्राष्ट्र
3.89	Special oil	98
3.90	Oil for manual gearbox	38
3.91	Lubricating oil for manual gearbox - SAE 75W90	38
3.92	Lubricating oil for manual gearbox - SAE 75W90	2018
3.93	Lubricating oil for manual gearbox - SAE 75W90	918
3.94	Lubricating oil for manual gearbox - SAE 75W90	18
3.95	Lubricating oil for manual gearbox - SAE 75W90	19
3.96	Lubricating oil for power steering	19
3.97	Lubricating oil for autornatic gearbox and power steering	19
3.98	Lubricating oil for the automatic gearbox differential - SAF 75W90	19
3.99	VW ATF oil for power steering	19
3.100	VW ATF oil for power steering	19
3.101	ATF oil for automatic gearboxes	19
3.102	VW ATF oil for power steering	19
3.103	VW ATF oil for power steering ATF oil for automatic gearboxes VW ATF oil for power steering Oil for gear selection mechanism Oil for gear selection mechanism	19
3.104	Air conditioning compressor oil - R 134a	19
3.105	Oil for the air conditioning compressor	19
3.106	Lubricating oil for assembly	20
3.107	White lubricating grease	20
3.108	Moly grease	20
3.109	Molybdenum bisulphate lubricating grease	20
	Copper grease	20
3.111	Silicon grease	20
3.112	High temperature paste	20
	Primer	20
3.114	Glass primer	20
	Adhesive remover	20
	Cleaning remover	21
3.117		21
3.118	Odourless solvent	21
3.119	Cleaning solution	21
	Engine leak detection spray	21
	Cylinder lubricating spray	21
	Primer for polyurethane surface	21
	Adhesive sealant	21
	Mixing tube	21
	Liquid sealant	22
	Silicone sealant for engines	22



	x 2004 ➤ , Fox 2010 ➤ , Fox 2014 ➤ , Gol 1995 ➤ , Gol 1999 ➤ , Gol emicals Manual - Edition 02.2016 Sealant for exhaust connections Teflon thread sealant Work Instructions for Handling Chemicals General considerations Application guide Application guide Application guide Repair Group 10 - Cylinders, cylinder block, support, protector Cylinder base gasket - lubricate Engine housing - seal Engine housing plugs - fasten Cylinder block plugs - fasten Cylinder block plugs - fasten Repair Group 13 - Crankshaft group Crankshaft needle bearing Needle bearing of the fastening hollow screw for the flywheel Flywheel fastening screw - lock Repair Group 15 - Cylinder head, valve gear Intermediate shaft seal - lubricate for assembly Camshaft valve bearing cover (1st and 5th) Seal	
) Ea	2004 - Fox 2010 - Fox 2014 - Col 1995 - Col 1999 - Col	2
Ch	emicals Manual - Edition 02.2016	1. dCC
2 127	Sealant for exhaust connections	22 874
3.128	Teflon thread sealant	22
4	Work Instructions for Handling Chemicals	23
4.1	General considerations	23
5	Application guide	20
5.1	Application guide	28 tothe
6	Repair Group 10 - Cylinders, cylinder block, support, protector	36 §
6.1	Cylinder base gasket - lubricate	36
6.2	Engine housing - seal	37
6.3	Engine housing plugs - fasten a	38 %
6.4	Cylinder block plugs - fasten	39
7	Repair Group 13 - Crankshaft group	40
7.1	Crankshaft needle bearing	40 3
7.2 7.3	Needle bearing of the fastening hollow screw for the flywheel	41
0	Penair Croup 15 Cylinder hand, value grees	42 8
8.1	Intermediate shaft seal - lubricate for assembly	43
8.2	Intermediate shaft seal - lubricate for assembly	44
8.3	Cylinder head sealing gasket - glue	45
8.4	Lower rear threaded pins fastening the cylinder head - rear threaded pin (crankshaft) / lower	46
8.5	front threaded pins (flywheel) - Seal	47
8.6	Cylinder head cover - seal	48
8.7	Cylinder head cover - seal	49
9	Repair Group 17 - Lubrication system	50
9.1	Engine crankcase - Fill / top up oil level	50
9.2	Junction between crankcase gaskets and crankshaft front and rear flange gasket - seal	51
9.3	Engine crankcase - seal	52
10	Repair Group 19 - Cooling system	53
10.1	G11 cooling system - fill / adjust additive proportion	53
10.2	G13 cooling system - fill / adjust additive proportion	54
11	Repair Group 20 - Supply system - tank, fuel pump	55
11.1	Fuel tank - add additive	55
11.2	Accelerator pedal shaft - lubricate	56
11.4	Accelerator pedal fastening - lubricate	57 58
12	Repair Group 26 - Exhaust system	59
12.1	Exhaust connection - seal	59
13	Repair Group - 28 - Ignition system, pre-ignition system	60
13.1	Ignition coils with final power stage - lubricate	60
14	Repair Group 30 - Clutch - control system	61
14.1	Clutch pedal bung - lubricate	61
14.2	Clutch control cable - lubricate	62
14.3	Clutch fork, contact with bearing - lubricate	63
14.4	Clutch fork bungs - lubricate	64
14.5	Wing nut for clutch control cable adjustment - lubricate	65
14.6	Sealing ring for the de-clutch bearing guide - lubricate for assembly	66
14.7	Clutch cable - lubricate	67
14.8 14.9	Clutch fork and clutch actuating lever - lubricate	68 69
14.10	Clutch actuating lever - lubricate	70
14.11	Input shaft splines - lubricate	71
14.12	Clutch pedal / clutch pedal bung - lubricate	72
14.13	Pedal support - seal	73





14.14	Clutch fork contact with the hydraulically activated cylinder of the gearbox clutch -	7
44.45	lubricate	74
14.15	Fastening flange for clutch slave cylinder - seal	75
15	Repair Group - 34 - Drive, housing	76
15.1	Linkage rod, front/rear section - lubricate	76
15.2	Gear lever bearing	77
15.3	Manual Gearbox - fill / top up level	78
15.4	Manual gearbox - Fill / top up level	79
15.5	Manual Gearbox - fill / top up level	80
15.6	Manual Gearbox - fill / top up level	81
15.7	Manual Gearbox - fill / top up level	82
15.8	Plastic sleeves for the linkage rod coupling system / linkage rod / supports (on the gearbox) - lubricate	83
15.9	Gear lever guide plate - lubricate	84
15.10	Rubber shim for the clutch compartment cover - glue	85
15.11	Clutch compartment cover - seal	86
15.12	Linkage rod bellows for the gear lever assembly - fasten / seal	87
15.13	Junction of cases and differential cover housing (transfer box / differential) - seal	88
15.14	Gear lever handle - fasten	89
	Fastening screw for the rear support of the gearbox cushion - seal	90
	Gearbox cushion - lubricate	91
	Gear selection mechanism - fill up	92
15.18	Electric connectors of the gear selection mechanism - apply Nyogel	93
16	Repair Group 35 - Gears and shafts	94
16.1	Input shaft splines - lubricate AG. Volkswagen AG.	94
16.2	Fastening screw for the clutch assembly / 5th gear synchronizer - lock	95
17	Repair Group 37 - Drive, housing	96
17.1	Planetary gear box (automatic gearbox) - fill / top up oil level	96
17.2	Planetary gear box (automatic gearbox) - fill / top up oil level	97
17.3	Planetary gear box (automatic gearbox) - fill / top up oil level	98
18	Repair Group - 39 - Gearbox shafts, differential	99
18.1	Gearbox side seals - lubricate	99
18.2	Planetary and satellite gears - lubricate for assembly	100
18.3		101
18.4		102
19 5	Repair Group - 40 - Front suspension	103
19.18	Constant velocity joint spline - lubricate	
19.2	Inner and outer constant velocity joint - lubricate	
19.38	Front wheel bearing mounting - lubricate	
19.4	Axle end - lubricate	
20	Pennin Craum 40 Penningan	440
20.1	Repair Group - 42 - Rear suspension Inner and outer constant velocity joint - lubricate Shaft end splines - lubricate Rear torsion bar - lubricate Rear wheel hub - lubricate Rear wheel hub seal - lubricate	113
20.1	Chaff and outer constant velocity joint - lubricate	110
20.2	Sprant end sprines - lubricate	114
20.3	Rear torsion par - lubricate	110
20.4	Rear wheel hub - lubricate	110
20.5	Rear wheel bearing - lubricate	440
20.0	Real wheel bearing - jubilicate	110
21	Repair Group - 46 - Brakes - Mechanical systems	119
21.1	Rear wheel brake shoe ends - lubricate	119
21.2	Rear wheel brake shoe ends - lubricate	120
21.3	Brake pedal safety pin - lubficate	121
21.4	Securing pin for the operating rod of the master cylinder plunger - lubricate	
21.5	Securing pin of the handbrake lever - lubricate	
21.6	Handbrake ratchet - lubricate	124
22	Repair Group - 47 - Brakes - Brake servo hydraulic system	125

Fox 2004 \succ , Fox 2010 \succ , Fox 2014 \succ , Gol 1995 \succ , Gol 1999 \succ , Gol ... Chemicals Manual - Edition 02.2016

22.1 22.2	Brake system - fill / top up	125
	lubricate	
22.3	Fastening screw for the front disc brake cylinder housing - lock	
23	Repair Group - 48 - Steering	
23.1 23.2	Oil reservoir for the power steering system - Fill / top up oil level Oil reservoir for the power steering system - fill / top up oil level	
23.3	Steering box - Fill / top up level	
23.4	Steering box mechanism - lubricate	
23.5	Adapter (sleeve) for the upper steering shaft - lock	
24	Repair Group - 53 - Body - Rear section	
24.1	Bucket sealing membrane - glue	
24.2	Rear side panel - protect the paint	
25	Repair Group - 55 - Covers	
25.1	Bucket protective cover longitudinal member - glue the finishing	
25.2	Lower latch of the bonnet - lubricate	
25.3	Damper eyelet for the rear cover - lubricate Galoga	137
26	Repair Group - 570 Front doors / components / central lock	138
26.1	Front door lock - lubricate	138
26.2	Lock drive rod - lubricate	139
26.3	Noise insulation for lock operating rod - glue Innet door seal - glue Repair Group - 58 - Rear doors / components	140
26.4	Innet door seal - glue	141
27	Repair Group - 58 - Rear doors / components	142
27.1	Rear door lock - lubricate	
27.2	Side door lock - lubricate	
28	Repair Group - 64 - Windscreens, windows, window mechanism	144
28.1 5		
	Vent window latch - lubricate	
28.4 %	0	
28.5	Front door window activation mechanism - lubricate	149
28.6	Windscreen, side window glass and rear window glass - glue	
	Windscreen, side window glass and rear window glass - seal	
28.8	Slass - engrave chassis number	
28.9	Front and rear door window guide groove - glue	152
28.10	Vent window - seal	153
29	Repair Group - 66 - External equipment	154
29.1	Roof rack fastening screws - lock	154
30	Repair Group - 68 - Internal equipment	155
30.1	Repair Group - 68 - Internal equipment Interior rearview mirror support - fasten Repair Group - 70 - Uning/insulation Door noise insulation - glue	155
31	Repair Group - 70 - Uning/insulation	156
31.1	Door noise insulation - glue	156
31.2	Noise insulation on rear side panel - glue	157
31.3	Roof noise insulation - glue	
31.4	Door sealing membrane - glue	
32	Repair Group - 72 - Seat framework	
32.1	Front seat central sliding guide - lubricate	
32.2	Front seat side sliding guide - lubricate	
33	Repair Group - 87 - Air conditioning	
33.1 33.2	Air conditioning system - refill with gas	
33.3	Air conditioning system - retill with oil	
34	Repair Group - 92 - Windscreen, rear window and headlight wiper and washer	
34.1	Windscreen wiper operating rod - lubricate	
w t. I	THE SECOND STORE OF SECOND SEC	.00



34.2	Windscreen/rear window washer water tank - fill	166
35	Repair Group - 94 - Switches, lights, and external bulbs	167
35.1	Contact blade for turn signal switch	167
36	Repair Group - 97 - Cables and electrical harnesses	168
36.1	Gaskets for the plastic covers that cover the electric harnesses - seal	168







00 - Technical data

1 Introduction

(VRL008743; Edition 02 2016)

The information in this manual also cover that mentioned in the ⇒ Electronic Replacement Parts Catalogue "ETKA" .

Some products are sold directly by the supplier, and so contacts are directed to them



WARNING

The information contained herein is a reference for the importer, since some of the products cited this Manual may not exist on the market.

M. 11 . 4 . 4 . 7

2 List of Suppliers

2.1 3M do Brasil

http://www.3m.com.br

2.2 Alba Adesivos Ind. Com. Ltda

http://www.albaadesivos.com.br/

2.3 Brascola Ltda

http://www.brascola.com.br/

2.4 Castrol Brasil Ltda

www.castrol.com/pt_br/brazil.html

2.5 Cia Brasileira de Petróleo Ipiranga

http://www.ipiranga.com.br

2.6 Chevron Brasil S/A

https://www.chevron.com.br

2.7 Colauto - Adesivos e Massas Ltda

http://bra.sika.cont/

2.8 Cremer S.A. Prod. Têxteis e Cirúrgicos

http://www.cremer.com.br

2.9 Dow Corning do Brasil Ltda

http://www.dowcogning.com/pt_BR

2.10 Dow:Automotive System

http://www.dow.com/brasil/

2.11 Du Pont S/A

http://www.dupont.com.br~

2.12 Elf Lubrificantes do Brasil

http://www.elf.com

2.13 Esso Brasileira de Petróleo Ltda

http://www.exxonmobil.com.br

2.14 Formiquímica Com. e Repres. de Produtos Químicos Ltda

http://formiquimica.com.br

2.15 Gratec System Indústria de Produtos Químicos Ltda

gratec@uol.com.br

2.16 Henkel do Brasil Ltda

http://www.henkel.com.br/index.htm

r, t 1 v Vs vs



2.17 Klüber Lubrification Lubrificantes Especiais Ltda

http://www.klueber.com/br/pt/homepage/

2.18 Loctite Brasil Ltda

http://www.loctite.com

2.19 Lumobrás Imp. Com. Ind. Ltda

http://www.lumobras.com.br

ExxonMobil do Brasil Ind. Com. Ltda 2.20

http://www.exxonmobil.com.br

2.21 Motul Synthetic Lubricants

https://www.motul.com/br/pt-br

2.22 Nippondenso Compressores Ltda

http://www.denso.com.br/

2.23 Pentosin do Brasil Ltda

http://www.pentosin.net/

2.24 Petrobras Distr. S/A

http://www.petrobras.com.br

2.25 Promax Prod. Máximos S/A Indústria e Comércio

http://www.promax.com.br

2.26 Repsol - YPF S.A. Divisão Lubrificantes Brasil

http://www.ypf.com/brasil/Paginas/Home.aspx

2.27 Quaker Chemical Industria e Comércio Ltda

http://br.quakerchem.com/

2.28 Shell Brasil S/A

http://www.shelf.com/bra.html

2.29 Sika S/A

http://bra.sika.com/

2.30 Solplás - Ind. de Plásticos Ltda

http://www.solplas.com.br

2.31 Solvay Química

http://www.solvay.com/

2.32 Three Bond do Brasil Ind. e Com. Ltda

http://www.threebond.com.br

2.33 Total Lubrificantes Brasil Ltda

http://www.totalbr.com.br/

2.34 Tutela Lubrificantes S/A

http://www.tutela.com.br/

2.35 Valvoline Lubrificantes Internacionais Ltda

http://www.valvoline.com.br/



List of authorized products 3



WARNING

Observe the information in Chapter "Work Instructions for Handling Chemicals" → page 23

3.1 Assembly Adhesive

Trade Name		Packaging	Supplier
	D 190 MKD A3	310 ml	VOLKSWAGEN

Adhesive for polyurethane and polypro-3.2 pylene

MKL.106.113.09

Trade Name	Packaging	Supplier
EC 4474	18-L buckets	3 M
Brascoplast CE 5575VW	18-L buckets	BRASCOLA

3.3 Resin adhesive

Trade Name	Packaging	Supplier
DA 001 730 A2	2 Kg	VOLKSWAGEN

Polyurethane-based sealing adhesive 3.4

MKL 106,146 83

Trade Name	Packaging	Supplier
Sikaflex 221 - white	310 ml cartridges	SIKA

3.5 Instant adhesive

MKL 106,037 28

Trade Name	Packaging	Supplier
SB - 416 🔊	10 g and 100 g TUBES	LOCTITE
TB-1000 E ₹	100 g TUBES	THREE BOND

& Adhesive for sealing gaskets 3.6

Trade Name	Packaging	Supplier
BRASCOVED CA-149 V	85 ML TUBES	BRASCOLA
ADHESIVE FOR DIESEL ENGINE GASKETS	85 ML TUBES	BRASCOLA

3.7 Permanent adhesive

BRASCOVULT L and 3.6 L CANS BRASCOLA SLP-76		Supplier	Packaging	Trade Name
10C3 Agpai	,)	BRASCOLA	7 L and 3.6 L CANS	
TPAI GONGT	1,2,	100	" ME SCOOM	
and the DA Japan	-	DA Tapewantor	Abolient in	-



3.8 Adhesive for packings and linings

MKL.106 217.95

Trade Name	Packaging	Supplier
BRASCOFIX 833 COVULFIX ESPE- CIAL		BRASCOLA BRASCOLA

3.9 Polyurethane adhesive

Trade Name	Packaging	Ö.	Supplier
D 180 KD2 A1	50 ml	8	VOLKSWAGEN

3.10 Polyurethane adhesive

Trade Name	Packaging 🐇		Supplier
D 180 KD3 A2	120 ml	ا ا	VOLKSWAGEN

3.11 Epoxy adhesive with 2 components

Trade Name	Packaging	Supplier
DA 001 730 A2	37 ML	VOLKSWAGEN

3.12 Sealing adhesives for engines

Trade Name	Packaging	Supplier
ISAVED 2 V	900 ML TINS	SOLPLÁS
THREE BOND 1,102 A	900 ML TINS	THREE BOND

3.13 High-resistance locking adhesive

Trade Name	Packaging	Supplier
LOCTITE 601	50 AND 250 ML TUBES	LOCTITE
THREE BOND 1329	50 AND 250 ML TUBES	THREE BOND

3.14 Low viscosity lock adhesive

Trade Name	Packaging	Supplier
	50 AND 250 ML TUBES	LOCTITE
THREE BOND 1305 B	50 AND 250 ML TUBES	THREE BOND

3.15 Locking adhesive

Trade Name	Packaging	Supplier
D 000 600 A2	18 ml	VOLKSWAGEN

3.16 Locking adhesive for mechanical seals

Trade Name	Packaging	Supplier
THREE BOND 1386	250 ML TUBES	THREE BOND

3.17 Medium torque locking adhesive

Trade Name	Packaging	Supplier
LOCTITE 649	50 ML TUBES	LOCTITE
THREE BOND 1324	50 ML TUBES	THREE BOND

3.18 Adhesive for plastic cap gaskets

Trade Name	Packaging	Supplier
BRASCOPEN CA 2800 F	5-LITER TINS	BRASCOLA

3.19 Metal-glass adhesive

Trade Name 🐾	Packaging	Supplier
D 000 703 A1	ည့ 0.3 g	VOLKSWAGEN

3.20 Sealing adhesive

Trade Name	Packaging	Supplier
LOCTITE 573	50 AND 250 ML Jang	LOCTITE .,,, 1.

3.21 2-component adhesive

Trade Name	Packaging	Supplier
THREE BOND 3941 (BLUE)	50 ML TUBES	THREE BOND
THREE BOND 3942 (RED)	50 ML TUBES	THREE BOND

3.22 Universal adhesive

Trade Name	Packaging	Supplier
D 001 200 M2	420 g	VOLKSWAGEN
D 001 210 M2	420 g	VOLKSWAGEN

3.23 Additives for coolants - G11

Trade Name	Packaging	Supplier
G 052 774 A3	1 litre	VOLKSWAGEN

3.24 Additives for coolants - G13

Trade Name	Packaging	Supplier
G 013 A8J M1	1.5 litre	VOLKSWAGEN

3.25 Additive for the windscreen/rear window washer reservoir

Trade Name	Packaging	Supplier
G 052 164 M1	0 5 litre	VOLKSWAGEN
G 052 164 M2	1 litre	VOLKSWAGEN

3.26 Additives for petrol

Trade Name	Packaging	Supplier
APR 020 002 B	375 ml	VOLKSWAGEN

3.27 Activating agent for pre-laminated glass

Trade Name	Packaging	Supplier
D 181 802 M1	10 ml	VOLKSWAGEN

3.28 Silicone rubber

Trade Name	Packaging	Supplier
FLEXITE BLACK	85 g TUBES	ALBA
BRASCOVED SI-40 - BLACK	85 g TUBES	BRASCOLA
SILASTIC 732 RTV - BLACK	85 g TUBES	DOW CORNING

3.29 Filling and acoustic isolation foam

Trade Name	Packaging	Supplier
D 506 KD1 A3	200 ml	VOLKSWAGEN

3.30 Polyurethane adhesive tape

Trade Name	Packaging	Supplier
MKR 106 260 95	21 MM X 50 M 🔗 ROLLS	VOLKSWAGEN

3.31 Cotton tape

Trade Name	Packaging	Supplier
TESABAND IM- PERMEÁVEL 4651 (waterproof)		CREMER

3.32 Self-adhesive PVC tape

Trade Name	Packaging	Supplier
	30 M X 19 MM ROLLS	3 M

3.33 Transferable; adhesive tape

Trade Name	Packaging	Supplier
Y-0598	33 M X 16 MM ROLLS	3 M

3.34 Sealing tape

Trade Name	Packaging	Supplier
BRASCOVED 2015 L	BOX CONTAINING 10 TO 20 KG (with tapes)	BRASCOLA

CIA INCHIVAZINE

Double-sided adhesive tape 3.35

Trade Na	i wié /Ao _{lkeana}	Packaging	Supplier	
V 280&	e e	6 0 MM X 61 M ROLLS	INDACÓ~	
Y 427		6.3 MM X 10 M ROLLS	3 M	3. 7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

Double-sided acrylic foam adhesive 3.36 tape

Trade Name	Packaging	Supplier
	5 MM X 10 M ROLLS	3 M

Medium density double-sided adhesive 3.37 tape

Trade Name	Packaging	Supplier
Y-4210 (SENSOR)	30 X 48 MM UNITS	3 M
325 /953 931 1	30 X 48 MM UNITS	VOLKSWAGEN
Y-4210 (GOL GTI ROOF SPOILER)	10 X 80 MM UNITS	3 M

3.38 Hydraulic brake fluid (DOT 4)

Trade Name		Packaging		Supplier
B 000 750 M1	1 4	0.25 litre	11 4.	VOLKSWAGEN

Automatic transmission fluid 3.39

Trade Name	Packaging	Supplier
G 052 182 A2	1 litre	VOLKSWAGEN

3.40 Refrigerant gas - R134a

Trade Name	Packaging	Supplier
SUVA® 134A		DU PONT
SOLKANE® 134A		SOLVAY QUÍMICA

3.41 Multi-purpose grease

Trade Name	Packaging	Supplier
ESSO MULTI H		ESSO
LITHOLINE MP		IPIRANGA
LUBRAX G-MA-2	İ	PETROBRÁS
RETINAX WB		SHELL
MULTIFAK 2		CHEVRON BRASIL

3.42 Semi-fluid grease

Trade Name	Packaging	Supplier
G 052 168 A1	10 g	VOLKSWAGEN

3.43 Multi-purpose grease

Trade Name	Packaging	Supplier
LITHOLINE EP 2		IPIRANGA
CASTROL GRAXA EPL 2		CASTROL
EXXON BEACON EP-2		ESSO
LUBRAX - GMA-2		PETROBRÁS
MULTIFAK PREMI- UM EP2		CHEVRON BRASIL

3.44 Multi-purpose grease The Maria 4

Trade Name	Packaging	Supplier
G 052 735 A2	್ಯ₅ 120 g	VOLKSWAGEN

3.45 Special lubrication grease

Trade Name	Packaging	Supplier
G 000 450 02	90 g	VOLKSWAGEN

3.46 Polyalphaolefin-based low temperature grease

Trade Name	Packaging	Supplier
ISOFLEX TOPAS L32 (WHITE)		KLUBER

3.47 🐁 Lubricating grease

Trade Name	Packaging	Supplier
VARILUB 745 BR	1 KG	KLÜBER

3.48 Complex grease

Trade Name	Packaging	Supplier
MOBILPLEX 47	WING	MOBIL

3.49 Graphite grease

Trade Name	Packaging	Supplier
ISAGRAFITE		IPIRANGA
KLUBER ST 25/300 G-8		KLUBER
PROFASA HD G-1		WAL

3.50 Grease for front wheel cylinder support guide pin

Trade Name	Packaging	Supplier
SYNTHESO GLK 1		KLUBER



Grease for gearbox side seals 3.51

Trade Name	Packaging	Supplier
GRAXA VARILUB AH 70-222 BR		KLUBER

3.52 Lubricating grease

Trade Name	Packaging	Supplier
G 052 186 A2	90 g	VOLKSWAGEN
G 052 186 A3	140 g	VOLKSWAGEN

3.53 Grease for electrical contacts

Trade Name	Packaging	Supplier
UNIMOLY AC MET- ALLIC		KLÜBER
MOLYKOTE HSC		LUMOBRÁS

3.54 Polyurea grease

Trade Name	Packaging	Supplier
G 052 142 A2	400 g	VOLKSWAGEN

High temperature grease 3.55

Trade Name	Packaging	Supplier
G 052 133 A2	90 g	VOLKSWAGEN
G 052 133 A3 300000	120 g	VOLKSWAGEN Vo.

Temperature resistant grease 3.56

Trade Name	Packaging	Supplier
G 000 650	100 g	VOLKSWAGEN

3.57 Lubricating grease

Trade Name	Packaging	Supplier
© 000 100	80 g	VOLKSWAGEN

Silicone based grease 3.58

Trade Name	Packaging	Supplier
UNISILKON GLK 112 BR	1 Kg	KLUBER

3.59 Windscreen adhesive set

Trade Name	Packaging	Supplier
DA 004 660 M2	and Comp. B - 193	VOLKSWAGEN
Tolar.	h. Marora and	6) 2 3 41 N 4. 1/1 N. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

3.60 Windscreen adhesive set

Trade Name	Packaging	Supplier
DA 004 556 M2	and Comp. B -	VOLKSWAGEN

3.61 Glass adhesion kit

Trade Name	Ç	Packaging	Supplier
BETASEAL U-400HV	4 "		DOW AUTOMO- TIVE SYSTEMS

3.62 Lithium-based lubricant

Trade Name	Packaging	Supplier
G 052 150 A2	180 g	VOLKSWAGEN

3.63 Adhesive paste and grey sealant

Packaging	Supplier
	VOLKSWAGEN

3.64 Adhesive material for glass

Trade Name	Packaging	Supplier
DH 009 100 条	300 ML	VOLKSWAGEN

3.65 Sealing compound

Trade Name	Packaging	Supplier
D 174,003 A2	83 ML ~ 1900	VOLKSWAGEN.

3.66 Adhesive material for glass

Trade Name	Packaging	Supplier
DH 009 100 03	300 ml	VOLKSWAGEN

3.67 Silicone paste

Trade Name	Packaging	Supplier
G 000 405 A2	50 g	VOLKSWAGEN

3.68 Mouldable paste for caulking

Trade Name	Packaging	Supplier
BRASCOVED 1051	BOX WITH 20 KG (20 1-KG BAGS)	BRASCOLA
	BOX WITH 20 KG (20 1-KG BAGS)	HENKEL

3.69 Lubricating paste for high temperatures

Trade Name	Packaging	Supplier
G 052 186 A3	140 g	VOLKSWAGEN



Lubricating paste for constant velocity 3.70 joints

Trade Name	Packaging	Supplier
G 052 738 A2	120 g	VOLKSWAGEN

3.71 Sealing compound

Trade Name	Packaging	Supplier
D 154,103 A1	100 g	VOLKSWAGEN

Sealing compound 3.72

Trade Name	Packaging	Supplier
VEDANTE 245/78	85 ML TUBES	HENKEL
SQV - 337	85 ML TUBES	BRASCOLA

Sealing compound 3.73

Trade Name	Packaging	Supplier . **
AMV 188 200 03	100 g TUBES	VOLKSWAGEN

Paste for bucket protection 3.74

Trade Name	Packaging &	Supplier
STOP NOISE 6,979A	20 KG PAILS	HENKEL
STOP NOISE 6979B	5 KG TINS	HENKEL

Sealing compound for engines 3.75

Trade Name	Packaging 🖔	Supplier
D 454,300 A2	125 g TUBES	VOLKSWAGEN

Sealing compound 3.76

Trade Name	Packaging	· 6	Supplier
7X0 898,539	100 g TUBES	, o	VOLKSWAGEN

Sealing compound for engine 3.77

Trade Name	Packaging	Supplier
AMV 188 001 02 - (EA 111 - 8V en- gines)	100 g TUBES	VOLKSWAGEN
D 154 103 A1 - (EA 111 - 8V engines)	100 g TUBES	VOLKSWAGEN
D 188,003 A1 - (EA 111 - 16V engines)	100 g TUBES	VOLKSWAGEN

3.78 Nyogel

Trade Name	Packaging	Supplier
G 052 817 A1	10-g SACHET	VOLKSWAGEN

3.79 Engine lubricant oil: Petrol, Ethanol - VW 501 01

Trade Name	Packaging		Supplier
CASTROL MAGNATEC EXCLUSIVE (SAE 10 W 40)	1 litre 200 litres	G 052 167 A1 G 052 167 M1	
MOTUL 4100 TURBOLIGHT (SAE 10 W 40)			MOTUL
PENTOLUB PERFORM- ANCE (SAE 10 W 40)			PENTOSIN

3.80 Engine lubricant oil: Petrol, Ethanol, Totalflex and NGV - VW 502 00

Trade Name	Packaging					Supplier
CASTROL MAGNATEC PROFESSIO- NAL MF (SAE 5 W 40)	1 litre 208 litres	1		167 167		VOLKSWA- GEN
CASTROL EDGE PRO- FESSIONAL A3 (SAE 0 W 30)	1 litre	G)52	167	A7	VOLKSWA- GEN
ELAION F50 (SAE 5 W 40)						YPF
ELAION SUV (SAE 5 W 40)					ı	YPF .**
HAVOLINE ULTRA S (SAE 5 W 40)						CHEVRON BRASIL
IPIRANGA F1 MASTER SYNTHETIC SN 502 (SAE 5 W 40)					20,000	IPIRANGA
MOBIL SU- PER 3000 X1 (SAE 5 W 40)					the Lar	MOBIL
MOTUL 6100 SYNERGIE + (SAE 5 W 40)						MOTUL
MOTUL 6100 SYNERGIE + (SAE 10 W 40)						MOTUL
MOTUL 8100 X Cess (SAE 5 W 40)						MOTUL
MOTUL 8100 X Clean (SAE 5 W 40)						MOTUL 🗽
PENTO- SYNTH (SAE 5 W 40)						PENTOSIN

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Trade Name	Packaging	Supplier
SHELL HELIX HX7 (SAE 5 W 40)		SHELL
SHELL HELIX ULTRA (SAE 5 W 40)		SHELL

3.81 Lubricating oil for diesel engines - VW 505 00 CONTRACT N. A. C. ACION

Trade Name	ValAche Made	Packaging	Supplier
CASTROL MAGNATEC EXCLUSIVE (SAE 10 W 40)	্ধণীtre 200 litres	G 052 167 A1 G 052 167 M1	VOLKSWA- 1. GEN
CASTROL MAGNATEC PROFESSIO- NAL (SAE 5 W 40)	1 litre 200 litres	G 052 167 A4 G 052 167 M3	0.51
ELAION F50 (SAE 5 W 40)			YPF
ELAION SUV (SAE 5 W 40)			YPF
HAVOLINE ULTRA S (SAE 5 W 40)			CHEVRON BRASIL
IPIRANGA F1 MASTER SYNTHETIC SN 502 (SAE 5 W 40)	`	Α.	IPIRANGA
MOBIL SUPPER 3000 X1, (SAE 5 W 40)			MOBIL MOTUL
MOTUL 4100 TURBO- LIGHT (SAE 10 W 40)	"hyston,", O	r)A	VI ME V
MOTUL 6100 SYNERGIE + (SAE 5 W 40)			MOTUL
MOTUL 6100 SYNERGIE + (SAE 10 W 40)			MOTUL
MOTUL 8100 X Cess (SAE 5 W 40)			MOTUL
MOTUL 8100 X Clean (SAE 5 W 40)			MOTUL
PENTOLUB PERFORM- ANCE (SAE 10 W 40)			PENTOSIN
PENTO- SYNTH (SAE 5 W 40)			PENTOSIN



Trade Name	Packaging	Supplier
SHELL HELIX HX7 (SAE 5 W 40)		SHELL
SHELL HELIX ULTRA E (SAE 5 W 30)		SHELL

3.82 Engine oil lubricant: Diesel - VW 507 00

Trade Name		Packaging	Supplier
CASTROL EDGE PRO- FESSIONAL LONGLIFE III (SAE 5 W 30)	1 litre	G 052 195 R2	GEN AG V RAWRELLA
MOTUL SPE- CIFIC DPF DIESEL (SAE 5 W 30)	. 6	res th .	MOTUL
PENTO SU- PER PER- FORMANCE III (SAE 5 W 30)	, o		PENTOSIN
SHELL HELIX ULTRA EX- TRA (SAE 5 W 30)	ŏ	M	SHELL
SHELL HELIX ULTRA ECT (SAE 5 W 30)			SHELL
MOBIL 1 ESP FORMULA	101-		MOBIL

3.83 Engine lubricant oil: Petrol and Totalflex - VW 508 88

Trade Name		Packaging	Supplier
CASTROL MAGNATEC PROFESSIO- NAL 508 88 (SAE 5 W 40)	1 litre	G 052 553 R2	VOLKSWA- GEN
ELAION F50 PLUS (SAE 5 W 40)			YPF
IPIRANGA F1 MASTER SYNTHETIC SN (SAE 5 W 40)			IPIRANGA
MOTUL SPE- CIFIC 508 88 509 99 (SAE 5 W 40)			MOTUL
PENTO- SYNTH R (SAE 5 W 40)			PENTÓSIN
MOBIL SU- PER 3000 X3			MOBIL



Trade Name	Packaging	Supplier
HAVOLINE ULTRA W		CHEVRON

Diesel engine lubricant oil - VW 509 99 3.84

Trada Nama		Daalsaaina	Cummban
Trade Name		Packaging	Supplier
CASTROL MAGNATEC PROFESSIO- NAL 508 88 (SAE 5 W 40)	1 litre	G 052 553 R2	VOLKSWA- GEN
ELAION F50 PLUS (SAE 5 W 40)			YPF
IPIRANGA F1 MASTER SYNTHETIC SN (SAE 5 W 40)			IPIRANGA
MOTUL SPE- CIFIC 508 88 509 99 (SAE 5 W 40)			MOTUL
PENTO- SYNTH R (SAE 5 W 40)	`	ggen Aus. vulturkayı	PENTOSIN
MOBIL SU- PER 3000 X3	- 81/h		MOBIL
HAVOLINE OF ULTRA W			CHEVRON

3.85 🔅 Lubricating oil for manual gearbox and steering box - SAE 90, MIL-L-2105B, API-GL5

Trade Name	Packaging	Supplier
CASTROL MAX- TRON 90		CASTROL
ESSO GEAR OIL GX		ESSO
IPIRGEROL SP 90		IPIRANGA
MOBILUBE HD 90		MOBIL
LUBRAX TRM 5		PETROBRÁS
SHELL SPIRAX A		SHELL
MULTIGEAR €P 90		TEXACO

Lubricating oil for manual gearbox - SAE 3.86 80, MIL-16-2105, API-GL4

Trade Name	Packaging	Supplier
IPIRGEROL EP 80		IPIRANGA
CASTROL UNI- TRON 80 W		CASTROL
ESSO GEAR OIL GP 80 W		ESSO
MOBILUBE GX 80 W		MOBIL



Trade Name	Packaging	Supplier
LUBRAX TRM -4		PETROBRÁS
SHELL SPIRAX G 80 W		SHELL
UNIVERSAL EP		TEXACO

3.87 Lubricating oil for manual gearbox - SAE 75W90

Trade Name	Packaging	Supplier
G 005 000	1 litre	VOLKSWAGEN

3.88 Lubricating oil for manual gearbox - SAE 75W90

Trade Name	Packaging	Supplier
G 052 157 A2	0.5 litre	VOLKSWAGEN

3.89 Special oil

Trade Name	Packaging	Supplier
G 052 172 A1	30 ml	VOLKSWAGEN
G 052 172 M2	100 ml	VOLKSWAGEN

3.90 Oil for manual gearbox

Trade Name	Packaging	Supplier
G 070 726 A2	1 litre	VOLKSWAGEN

Lubricating oil for manual gearbox - SAE 3.91 75W90

Trade Name	Packaging	Supplier
G 052 171 A2	1 litre	VOLKSWAGEN

3.92 Lubricating oil for manual gearbox - SAE 75W90

Trade Name	Packaging	Supplier
G 070 726 A2	1 litre	VOLKSWAGEN

3.93 Lubricating oil for manual gearbox - SAE 75W90

Trade Name	Packaging	Supplier
G 060 726 A2	1 litre	VOLKSWAGEN

3.94 Lubricating oil for manual gearbox - SAE 75W90

Trade Name	Packaging	Supplier
G 070 726 A2	1 litre	VOLKSWAGEN

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Lubricating oil formanual gearbox - SAE ... 3.95 75W90

Trade Name	Packaging	Supplier
G 052 512 A2	1 litre	VOLKSWAGEN

Lubricating oil for power steering 3.96

Trade Name	Packaging	Supplier
G 004 000 Mg	1 litre	VOLKSWAGEN

Lubricating oil for automatic gearbox 3.97 and power steering

Trade Name	Packaging	Supplier
325 029 9014	20 litre	VOLKSWAGEN

3.98 Lubricating oil for the automatic gearbox differential - SAE 75W90

Trade Name	Packaging	Supplier
G 052 145 S2	9 litre	VOLKSWAGEN

VW ATF oil for power steering 3.99

Trade Name	Packaging 490000	Supplier
G 052 162 A2	1 litre	∀OLKSWAGEN

3.100 VW ATF oil for power steering

Trade Name	Packaging	Supplier
G 052 990 A2	1 litre	VOLKSWAGEN

3.101 ATF oil for automatic gearboxes

Trade Name	Packaging	Supplier
G 055 515 A2	850 ml	VOLKSWAGEN

3.102 VW ATF oil for power steering

Trade Name	Packaging	Supplier
G 055 025 A2	11 litre	VOLKSWAGEN

Oil for gear selection mechanism 3.103

Trade Name	Packaging	Supplier
G 052 512 S1	1 litre	VOLKSWAGEN

3.104 Air conditioning compressor oil - R 134a

Trade Name	Packaging	Supplier
G 052 154 A2	250 ml	VOLKSWAGEN

3.105 Oil for the air conditioning compressor

Trade Name	Packaging	Supplier
G 052 154 A2	250 ml	VOLKSWAGEN

3.106 Lubricating oil for assembly

Trade Name	Packaging	Supplier
G 294 421 A1	100 ml	VOLKSWAGEN

3.107 White lubricating grease

Trade Name	Packaging	Supplier
DUOTEMPI PMY-45		Ķ⊵ÜBER
MOLYKOTE D	The same of the sa	LUMOBRÁS

3.108 Moly grease

Trade Name	Packaging 🤌	Supplier
G 052 723 A2	50 ml 👆	VOLKSWAGEN

3.109 Molybdenum bisulphate lubricating grease

Trade Name	Packaging	Supplier
UNIMOLY R 55/10	hat	KLÚBER
MOLYKOTE G PASTE	.et	LUMOBRÁS

3.110 Copper grease

Trade Name	Packaging	Supplier
MOLIKOTE (r) CU-7439 PLUS		LUMOBRÁS

3.111 Silicon grease

Trade Name	Packaging	Supplier
G 052 565 A1		VOLKSWAGEN

3.112 High temperature paste

Trade Name	Packaging	Supplier
G 052 112 A3	170 g	VOLKSWAGEN

3.113 Primer

Trade Name	Packaging	Supplier
D 181,711 A1	10 ml	VOLKSWAGEN

3.114 Glass primer

Trade Name	Packaging	Supplier
D 009 200 02	10 ML	VOLKSWAGEN

3.115 Adhesive remover

Trade Name	Packaging	Supplier
D 002 000 A2	900 ML	VOLKSWAGEN



3.116 Cleaning remover

Trade Name	Packaging	Supplier
LVM 020 100 A5	2 5 litres	VOLKSWAGEN

Corrosive paste 3.117

Trade Name	Packaging	Supplier
GRATECRIL ACTI- VATED TLB 1012	125 g TUBES	GRATEC SISTEM

3.118 Odourless solvent

Trade Name	Packaging	Supplier
		QUAKER CHEMI- CAL
FORMISOLV 710	20-LITER CON- TAINERS	FORMIQUIMICA

Cleaning solution 3.119

Trade Name	Packaging CWSWal	Supplier
D 009 401 04	250 ML @003	VOLKSWAGEN

Engine leak detection spray 3.120

Trade Name		Packaging	Supplier
G 001 800 A1	8	200 ML	VOLKSWAGEN

Cylinder lubricating spray 3.121

Trade Name	Packaging	Supplier
G 052 778 A2	50 ML	VOLKSWAGEN

Primer for polyurethane surface 3.122

Trade Name	Packaging	Supplier
# 2287	1-LITER JARS	VOLKSWAGEN
P.8220	0.9-LITER JARS	VOLKSWAGEN

3.123 Adhesive sealant

Trade Name	Packaging	Supplier
D 176,501 A1	150 ml	VOLKSWAGEN

Mixing tube 3.124

Trade Name	Packaging 19/19/2019	Supplier
D 001 001	50 ml	VOLKSWAGEN



Note

Can be used with D 001 730 A2

3.125 Liquid sealant

Tra	ade Name	Packaging	Supplier
D	185,400 A2	50 ml	VOLKSWAGEN

Silicone sealant for engines 3.126

Trade Name	Packaging	Supplier
D 176 404 M2	80 ML TUBES	VOLKSWAGEN

Sealant for exhaust connections 3.127

Trade Name	Packaging	Supplier
TMX 386	3.6-LITER TINS	SOLPLÁS, A A A A A A A A A A A A A A A A A A A
		BRASCOLA
AIR DRYING SEAL- ANT	3.6-LITER TINS	HENKEL

3.128 Teflon thread sealant

Trade Name	Packaging	Supplier
VIBRA-SEAL 503	15 g and 250 g TUBES	LOCTITE



Work Instructions for Handling 4 Chemicals

4.1 General considerations

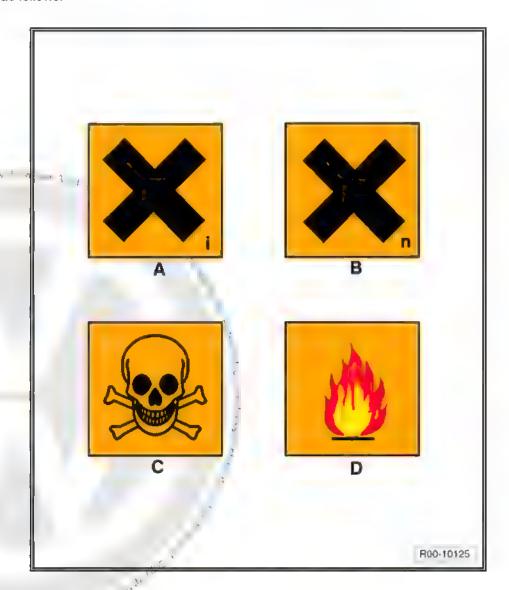
4.1.1 Solvent Handling

Description of the Material

Solvents and their mixtures, e. g. hydrocarbons, halogens, alcohols, esters, ketones are liquid organic materials. This Safety Information applies to all solvents and water-free cleaning products, and hardeners, primers, separators, and all preparations used for this purpose as well.

Solvents can be classified as follows:

- A Irritant
- **B** Noxious
- C Toxic
- D Easily flammable



Applications

painting, cleaning and maintenance of parts.

Storage



Solvents must be stored in closed, identified safety containers Storing solvents in beverage bottles is strictly prohibited. Keep only a volume sufficient to carry out the work in one shift in the workplace. Volumes exceeding the daily requirement must be stored in well ventilated, explosion-proof rooms.

Work

Work with solvents requires the use of exhaust fans or environments with good ventilation. Greater quantities of easily flammable or flammable materials must be handled only in explosion-proof locations. To prevent spontaneous combustion, solvents must not come into contact with highly corrosive substances (e.g. chromic acid, organic peroxides, etc.).

Thus, the following should be observed:

- 1 prevent contact with hot surfaces, alkalis, such as caustic soda, burnt lime or light metal chips.
- 2 prevent contact with hot surfaces, alkalis, such as caustic soda, burnt lime or light metal chips.
- 3 protect the material against sunlight.
- 4 do not use open flames, such as welding torches.

In case of prolonged use or storage, mixtures of halogen and flammable solvents, such as cold cleaning products, classified as less flammable, may become flammable solutions, due to evaporation of the halogen component.

Maintenance in confined spaces

Solvent vapours are heavier than air. Thus, they concentrate in wells and tanks. Accordingly, before starting work in these places, an "authorization for confined space" must be requested.

Operational failures

Spilt solvent must be collected using appropriate absorption products. The products should be stored in closed containers with material identification and information on the content for future disposal.

Protection against fire

When handling solvents, open flames, exposed lighting and smoking are prohibited. For fire extinguishers, use CO2 and dry chemical powder.

- Health protection, hygiene at work
- 1 When inhaled, most solvents have a narcotic effect and reduce ethanol tolerance. Some solvents, even in small concentrations, are noxious.
- 2 In case of severe intoxication, remove the person to an outside or a well-ventilated location, until an ambulance arrives.
- Work uniforms heavily-stained with solvent should be changed and thoroughly cleaned
- 4 Workers who have handled solvents and later complain about health problems should consult a doctor immediately The doctor must be informed about the solvents handled by the worker
- 5 Solvents have a degreasing effect on the skin. Using solvents to clean the skin is prohibited. In case contact with the skin is inevitable, treat the skin beforehand with protective cream.
- 6 In workplaces where solvents are used, eating, drinking and storing food, especially close to chemicals, are prohibited.



- 7 Smoking while handling solvents is prohibited, since there is risk of fire or formation of products that cause toxic reactions in atmospheres with high hydrocarbon and halogen contents.
- Personal protective equipment

In compliance with Standard 6 (NR-6) Ordinance 3214 of the Ministry of Labour, handling solvents requires the use of personal protective equipment, such as the following

- 1 gloves
- 2 safety goggles
- 3 protective clothing
- ♦ Environmental protection, waste treatment

Solvents must not be disposed of in the sewer network. These products must be collected into proper containers, which must be closed and identified, for future disposal or recycling.

4.1.2 Work instruction - Flammable material handling

Flammable liquids are liquids, liquid mixtures or liquids with solid particles in solution of suspension (including substances classified in a different way, based on their hazardous characteristics) producing flammable vapours at temperatures up to 60.5 °C, in open vessel tests.

Flammable materials may be solid, liquid or gaseous. As they release oxygen, these materials burn and, under certain circumstances, may ignite explosively. Flammable materials cause irritations, corrosion, and noxious and toxic reactions.

In accordance with legislation, flammable materials are classified as follows:

- Extremely flammable: Substances or liquid mixtures, of which the flash point (temperature at which the substance may burst into flames) is below 0 °C and the boiling point is below 35 °C;
- ◆ Easily flammable:

substances or mixtures that may warm and ignite in the air at room temperature, without interference from any energy source;

substances or solid mixtures that may easily ignite after a brief contact with an ignition source and that keep burning after the source is removed;

For liquid substances, the flash point is lower than 21 °C. In contact with water or humid air, extremely flammable gases are released in dangerous volumes,

 Flammable: substances or liquid mixtures, the flash point of which is equal to or higher than 21 °C and lower than or equal to 55 °C

Handling these materials requires that the following be observed

- 1 In places of work and storage, floors, desks or racks made of wood should not be used. The floor must be kept clean.
- 2 Eating, drinking, smoking, and storing food or cigarettes are prohibited at the workplace and areas close to it.
- 3 The required personal protective equipment, such as safety goggles, gloves, and, where applicable, aprons and rubber boots, must be used.
- 4 Wet or excessively dirty clothing must be promptly changed.
 This clothing must not be dried. Work clothes even those

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slightly dirty - must be sorted and marked with the following warning before being sent to laundry: "CLOTHING CONTAMINATED WITH FLAMMABLE MATERIALS". These clothes must be washed in water.

- 5 Contaminated or wet personal clothes must also be washed in water at home.
- Flammable materials must not come into contact with organic substances, such as oil, grease, and solvent, since there is risk of fire
- 7 While handling flammable materials, prevent spillage and dust. In case of leaks, spilt products must not be adsorbed by sawdust or disposed of in trash cans.
- 8 Solid flammable materials must be swept or wet with absorption products. These materials must be collected into proper containers and sent, with indication of content, for disposal.
- 9 In case flammable materials come into contact with the skin or eyes, wash them promptly with plenty of water (for at least 15 minutes). Then, consult a doctor. Inform about the product affecting the person.

4.1.3 Handling used engine oil

Description of the material

Oils for four-cylinder engines comprise basically superior hydrocarbons with additives. At temperatures that can reach over 450 °C on the bottom of the piston, oxidation and other chemical reactions take place. In these processes reactive products are formed, such as "polycyclic aromatic hydrocarbons".

Applications

Used engine oil is produced mostly in engine test workshops after long-running operational tests. It is also produced during oil change, for example, at a customer service centre, and from vehicles undergoing durability tests. For sealing quality control, these engine oils are submitted to thermal load.

Storage

Used engine oil must be collected and temporarily stored into metal containers with locks and the following warning:

"Caution, Used engine oil." Prevent contact with skin.

Work

Production-scale work at recovery facilities, unproductive application in used oil coagulation.

Maintenance

Observe the following items during maintenance activities. Operating failures - Leaks, Fire protection and Occupational hygiene and health preservation.

Operational failures - Leaks

In case spilt oil absorption is required, the spilt product must be stored in closed containers for future disposal.

Protection against fire

Engine oils are not classified as flammable materials, since their flash points are above 100 °C. To prevent spontaneous ignition, fire or explosion, cloths or other absorbent materials impregnated with oil must be stored in non-flammable containers with a cover.

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♦ Health protection and hygiene at work



Prolonged or repetitive contact with any type of engine oil results in skin degreasing. Skin drying, irritation or inflammation may occur. In addition, used engine oils contain hazardous substances classified as "polycyclic aromatic hydrocarbons". The following work hygiene precautions should be observed:

- Before handling used engine oils, apply appropriate skin protection
- Preferentially, use warm water and soap to remove engine oil from skin
- 3 Solvents, cold cleaners, thinners, diesel oil should not be used for cleaning skin contaminated with engine oil.
- ♦ Personal protection equipment

The following equipment should be used:

- Goggles
- Sleeves
- Aprons
- ◆ Environmental protection, waste treatment

Used oils are classified as liquids hazardous to water. Do not dispose of used oil in the sewer system or the soil.

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Application guide 5

5.1 Application guide

Repair group - 10 - Cylinders, Cylinder block, Support, Protector

APPLICATION	VALIDITY
Cylinder base gasket - lubri- cate	1.6-litre, air-cooled engine ⇒ page 36
Air-cooled engine housing - seal	1.6-litre, air-cooled engine ⇒ page 37
Cylinder block plugs - fasten	Water-cooled engines ⇒ page 39
Cylinder block plugs - seal	1.6-litre engine <u>⇒ page 38</u>

Repair group - 13 - Crankshaft group

APPLICATION	VALIDITY
Needle bearing of the fasten- ing hollow screw for the fly- wheel - lubricate	Air-cooled engines <u>⇒ page 41</u>
Crankshaft needle bearing - lubricate	Engines - 1.6 , 1.8 and 2.0 L EA 827 , 2.0 L 16 V , 1.0 , 1.4 and 1.6 L - EA 111 , 1.0 16 V , EA 111 , 1.8 and 2.0 k ► EA 113 ⇒ page 40
Flywheel fastening screw - lock	Air-cooled engines <u>⇒ page 42</u>

Repair group - 15 - Cylinders, Cylinder block, Support, Protector

APPLICATION	VALIDITY
Intermediate shaft seal - luz. bricate for assembly	Engines - 1.6, 1.8 and 2.0 L EA 827 <u>⇒ page 43</u>
Camshaft valve bearing cover (1st and 5th) - Seal	Engines - 1.0-litre - EA 111 (Tasse) <u>⇒ page 44</u>
Cylinder head sealing gasket - glue	Air-cooled engines <u>⇒ page 45</u>
Lower rear threaded pins fas- tening the cylinder head rear threaded pin (crankshaft) / lower front threaded pins fly- wheel) - Seal	Air-cooled engines <u>⇒ page 46</u>
Cylinder head cover - seal	Engines - 1.0 L - EA 111 , 1.0 16 V - EA 111 <u>⇒ page 49</u>
Cylinder head cover - seal	8 V engine RSH - <u>⇒ page 48</u>
Cylinder head cover - seal	8 ∨ Tasse Engine - <u>⇒ page 47</u>

Repair group - 17 - Lubrication system

APPLICATION	VALIDITY
Engine crankcase - Fill / top up oil level	Engines - all page 50
Engine crankcase - Fill / top up oil level	2.4 L Engine - Caravelle and Eurovan <u>page 50</u>
Engine crankcase - Fill / top up oil level	2.0-litre engine - Amarok <u>⇒ page 50</u>



APPLICATION	VALIDITY
	Engines - 1.6 , 1.8 and 2.0 L EA 827 , 1.0 , 1.4 and 1.6 L - EA 111 , 1.0 16 V - EA 111 , → page 52
Junction between crankcase gaskets and crankshaft front and rear flange gasket - seal	Engines - 1.6, 1.8 and 2.0 L EA 827 - UNF, UPQ, UDH, UQG - 2 0L 16 V <u>⇒ page 51</u>

Repair group - 19 - Cooling system

APPLICATION	VALIDITY
Cooling system (G11) - fill / adjust additive proportion.	Engines - all until 05/01/2000 ⇒ page 53
Cooling system (G13) - fill / adjust additive proportion.	Engines - all from 05/02/2000 ⇒ page 54

Repair group - 20 - Fuel tank, fuel pump

APPLICATION	VALIDITY
Fuel tank - add additive	All petrol-only models ⇒ page 55
Accelerator pedal shaft - lu- bricate	All (except Kombi and E-gas vehicles) <u>⇒ page 56</u>
Accelerator pedal fastening - lubricate	Kombi <u>⇒ page 57</u>
Accelerator cable and cable end - accelerator pedal fastening - lubricate	Kombi <u>⇒ page 58</u>

Repair group - 26 - Exhaust system

APPLICATION	VALIDITY
Exhaust connection - seal	All ⇒ page 59 kswagen 4/

Repair group - 28 - Ignition system, pre-ignition system

APPLICATION	VALIDITY
Ignition coils with final power stage - lubricate	All <u>⇒ page 60</u>

Repair group - 30 - Clutch - control system

APPLICATION	VALIDITY
Clutch gedal bung - lubricate	Gol GTI 16 V and Parati GTI 16 V ⇒ page 61
Clutch control cable - tubri- cate	Gol, Parati, Saveiro and Santana ⇒ page 62
Clutch fork, contact with bear- ing - lubricate	Gearboxes - 013 <u>⇒ page 63</u>
Clutch tork bungs - lubricate	Gearboxes - 013 <u>⇒ page 64</u>
Wing nut for clutch control ca- ble adjustment - lubricate	Gearbox - 081 <u>→ page 65</u>
Sealing ring for the clutch bearing gluide - lubricate for assembly	Gearboxes - MQ 200 and 250 ⇒ page 66
Clutch cable Jubricate	Kombi <u>⇒ page 67</u>
Clutch fork and clutch actuat- ing lever - lubricate	
Clutch pedal fastening dubricate	Kombi <u>⇒ page 69</u>
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Gearbox - CNX ⇒ page 75

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APPLICATION	VALIDITY
Clutch actuating lever - lubricate	Gearbox -081 <u>→ page 70</u>
Input shaft splines - lubricate	Gearboxes - 013 1.0 L , 013 - 1.6 , 1.8 E 2.0 L <u>⇒ page 71</u>
Clutch pedal / clutch pedal bung	All (except Kombı) ⇒ <u>page 72</u>
Pedal support - seal	Gol , Parati, and Saveiro - 98 ► ⇒ page 73
Clutch fork contact with the hydraulically activated cylinder of the gearbox clutch - lubricate	Gearbox - CNX <u>⇒ page 74</u>

Repair group - 34 - Drive, housing

Fastening flange for clutch slave cylinder - seal

APPLICATION	VALIDITY
Linkage rod, front/rear section - lubricate	Kombi <u>⇒ page 76</u>
Gear lever bearing - lubricate	All (except Kombi) <u>⇒ page 77</u>
Manual gearbox - Fill / top up level	Gearbox - CNX <u>⇒ page 78</u>
Manual gearbox - Fill / top up level	Gearboxes - 013 - 1.0 L 013 - 1.6 , 1.8 E 2.0 L <u>⇒ page 79</u>
Manual gearbox - Fill / top up level	Gearbox - MQ 250 <u>⇒ page 80</u>
Manual gearbox - Fill / top up level	Gearbox - MQ 200 <u>⇒ page 81</u>
Manual gearbox - Fill / top up level	Gearbox ⊷081 - Kombi ⇒ page 82
Plastic sleeves for the linkage rod coupling system / linkage rod / supports (on the gearbox)	Gol, Parati, Saveiro and Sa n tana <u>⇒ page 83</u>
Gear lever guide plate - lubri- cate	Kombi <u>⇒ page 84</u>
Rubber shim for the clutch compartment cover - glue	Gol, Parati, Saveiro and Santana <u>→ page 85</u>
Clutch compartment cover - seal	Gol, Parati, Saveiro and Santana <u>⇒ page 86</u>
Linkage rod bellows for the gear lever assembly - fasten / seal	Gol, Parati, Saveiro and Santana ⇒ page 87
Housing junction (transfer box / differential) and differential cover housing - seal	Gearbox - CNX <u>⇒ page 88</u>
Gear lever handle - fasten	Gol, Parati, Saveiro and Santana ⇒ page 89
Gearbox cushion - lubricate	Polo and Fox manual gearbox > page 91
Fastering screw for the rear support of the gearbox cush- ion - seat	Gearboxes - 013 - 1.0 L 013 - 1.6 , 1.8 E 2.0 L <u>→ page 90</u>
Gear selection mechanism - fill up	Automated gearboxes SQ 200 ⇒ page 92
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APPLICATION	VALIDITY
Electric connectors of the gear selection mechanism - apply nyogel	Automated gearboxes SQ 200 page 93

Repair group - 35 - Gears and shafts

APPLICATION	VALIDITY
Input shaft splines - lubricate	Gearbox - 081 <u>⇒ page 94</u>
Fastening screw for the 5th gear synchronizer / clutch assembly lock	Gearboxes - 013 - 1.0 L , 013 - 1.6 , 1.8 E 2.0 L <u>⇒ page 95</u>

Repair group - 37 - Drive, housing

APPLICATION	VALIDITY
Planetary gear box (automatic gearbox) - Fill / top up oil level	Gearbox - 01M <u>⇒ page 96</u>
Planetary gear box (automatic gearbox) - Fill / top up oil level	Gearbox - 09A <u>⇒ page 97</u>
Planetary gear box (automatic gearbox) - Fill / top up oil level	Gearbox - 09G <u>⇒ page 98</u>

Repair group - 39 - Gearbox shafts, differential

APPLICATION	VALIDITY
Gearbox side seals - lubricate	Gearboxes - 013 - 1.0 L 013 - 1.6, 1.8 and 2.0 L 081 ⇒ page 99
hibriaata far aanambli	Gearbox - 081 <u>⇒ page 100</u>
Automatic gearbox differential - top up oil tevel	Gearbox - 01M ≥ page 101
Differential cover with gear- box housing - seal	Gearboxes - 013 - 1.0 L , 013 - 1.6 , 1.8 E 2.0 L <u>⇒ page 102</u>

Repair group - 40 - Front suspension

APPLICATION	VALIDITY
Constant velocity joint spline - lubricate	Gol, Parati, Saveiro and Santana ⇒ page 103
Inner and outer constant ve- locity joint - lubricate	Gol, Parati, Saveiro and Santana ⇒ page 104
Front wheel bearing mount- ing - lubricate	Gol, Parati, Saveiro and Santana ⇒ page 105
Axle end - lubricate	Kombi <u>⇒ page 106</u>
King pin bearing - lubricate	Kombi <u>⇒ page 108</u>
Front axle beam - lubricate	Kombi ⇒ <u>page 109</u>
Suspension arms - lubricate	Kombi <u>⇒ page 110</u>
Front wheel bearing - lubri- cate	Kombi <u>⇒ page 111</u>
Passage hole for the speed- ometer cable in the wheel hub protector - seal	Kombı <u>⇒ page 112</u>



Repair group - 42 - Rear suspension

APPLICATION	VALIDITY
Inner and outer constant ve- locity joint - lubricate	Kombi <u>⇒ page 104</u>
Shaft end splines - lubricate	Kombi <u>⇒ page 114</u>
Rear torsion bar - lubricate	Kombi <u>⇒ page 1₹5</u>
Rear wheel hub - lubricate	Kombi <u>⇒ page∜16</u>
Rear wheel hub seal - lubri- cate	Kombi <u>⇒ page 117</u>
Rear wheel bearing - lubri- cate	Kombi <u>⇒ page 118</u>

Repair group - 46 - Brakes - Mechanical systems

APPLICATION	VALIDITY
Rear wheel brake shoe ends - lubricate	Gol, Parati, Saveiro, Santana and Kombi ⇒ page 119
Handbrake cable terminal - lubricate	Gol, Parati, Saveiro and Santana ⇒ page 120
Brake pedal safety pin - lubri- cate	Gol, Parati, Saveiro and Santana ⇒ page 121
Securing pin for the operating rod of the master cylinder plunger - lubricate	Kombi <u>⇒ page 123</u>
Securing pin of the hand- brake lever - lubricate	Gol, Paratı, Saveiro and Santana ⇒ page 123
Handbrake ratchet - lubricate	Kombi <u>⇒ page 124</u>

Repair group - 47 - Brakes - Brake servo hydraulic system

APPLICATION	VALIDITY
	All <u>⇒ page 125</u> Goi, Paratı, Saveıro and Santana <u>⇒ page 126</u>
	Gol, Parati, Saveiro and Santana with Vargas brake system ⇒ page 127

Repair group - 48 - Steering

APPLICATION	VALIDITY
Oil reservoir for the power steering system - Fill / top up oil level	Santana, Gol, Parati, Saveiro, Polo and Fox. <u>⇒ page 128</u>
Oil reservoir for the power steering system - Fill / top up oil level	Santana, Golf, Passat, Polo Classic, Fox, Polo and Saveiro ⇒ page 129
Steering box - Fill / top up oil level	Kombi <u>⇒ page 130</u>
Steering box mechanism - lu- bricate	Gol , Parati , Saveiro (Genera- tion II , III and IV) and Santana ⇒ page 131
Adapter (sleeve) for the up- per steering shaft - lock	Gol, Parati, Saveiro and Santana ⇒ <u>page 132</u>



Repair group - 53 - Body - Rear section

APPLICATION	VALIDITY
Bucket sealing membrane - glue	Saveiro Generation II , III and IV <u>⇒ page 133</u>
Rear side panel - protect the paint	Saveiro Generation II , III and IV <u>→ page 134</u>

Repair group - 55 - Covers, Protector

APPLICATION	VALIDITY
Bucket protective cover lon- gitudinal member - glue the finishing	Saveiro <u>⇒ page 135</u>
Lower latch of the bonnet - lubricate	Gol, Parati, Saveiro and Santana ⇒ page 136
Damper eyelet for the rear and front lid	All <u>⇒ page 137</u>
Tailgate buffer - lubricate	Saveiro 2013 ► <u>⇒ page 10</u>

Repair group - 57 - Front doors / components / central lock

APPLICATION	VALIDITY
Front door lock - lubricate	Gol, Parati, Saveiro and Santana ⇒ page 138
Lock drive rod - lubricate	Kombi <u>⇒ page 139</u>
Noise insulation for lock op- erating rod - glue	All (except vehicles with cable operation) <u>⇒ page 140</u>
Inner door seal - glue	Kombi <u>⇒ page 141</u>

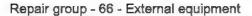
Repair group - 58 - Rear doors / components

APPLICATION	VALIDITY
Ale . A . Ale	Gol, Parati, Saveiro and Santana
Side door lock lubricate	Kombi <u>⇒ page/143</u>

Repair group - 64 - Windscreens, windows, window mechanisms

APPLICATION	VALIDITY :
Door window activation mechanism - lubricate	Gol, Parati, Saveiro and Santéna ⇒ page 144
Vent window - seal	Kombi <u>⇒ page 153</u>
Vent window latch - lubricate	Kombi <u>⇒ page 145</u>
Front door window support - lubricate	Kombı <u>⇒ page 146</u>
Front door window activation mechanism - lubricate	Kombi <u>⇒ page 146</u>
Window crank fastening screw - lock	All (fastened with screw) ⇒ page 147
Windscreen, side window glass and rear window glass - glue	All (except windows with finishing) <u>→ page 149</u>
Windscreen, side window glass and rear window glass - seal	All (except glued windows) <u>⇒ page 150</u>
Glass - engrave chassis num- ber	All <u>⇒ page 151</u>
Frønt and rear door window	Kombi <u>⇒ page 152</u>

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APPLICATION	VALIDITY
Roof rack fastening screws - lock	Santana, Quantum and Parati

Repair group - 68 - Internal equipment

ALIDITY
antana ⇒ <u>page 155</u>

Repair group - 70 - Lining/insulation

APPLICATION	VALIDITY
Door noise insulation - glue	All <u>⇒ page ₹56</u>
Noise insulation on rear side panel - glue	All <u>⇒ page</u> ≥1 <u>57</u>
Roof noise insulation - glue	All <u>⇒ page 158</u>
Door sealing membrane - glue	All <u>⇒ page 159</u>

Repair group - 72 - Seat framework

APPLICATION	VALIDITY
Front seat central sliding guide - lubricate	Gol, Parati, Saveiro and Santana ⇒ page 160 ర్హ
Front seat side sliding guides - lubricate	Gol, Parati, Saveiro and Santana ⇒ page 161

Repair group - 87 - Air conditioning

APPLICATION	VALIDITY
Air conditioning system - refill with gas	All <u>⇒ page 162</u>
Air conditioning system - refill with oil	All <u>⇒ page 163</u>
Air conditioning pressure switch - seal	Gol, Parati, Saveiro and Santana ⇒ page 164

Repair group - 90 - Instrument case, indicators

APPLICATION	VALIDITY
Windscreen ultrasound sen-	Santana ► 12.01, Gol and Parati
sor - fasten	► 04.99

Repair group - 92 - Windscreen, rear window and headlight wiper and washer

APPLICATION	VALIDITY
Windscreen wiper operating rod - lubricate	Kombi ⇒ <u>page 165</u>
Windscreen/rear window washer water tank - fill	All⇒ page 166

Repair group - 94 - Switches, lights, and external bulbs

APPLICATION	VALIDITY
Contact blade for turn signal switch - lubricate	All <u>⇒ page 167</u>



Repair group - 97 - Cables and electric harnesses

APPLICATION	VALIDITY
Gaskets for the plastic covers that cover the electric harnesses - seal	All <u>⇒ page 168</u>



Repair Group 10 - Cylinders, cylinder 6 block, support, protector



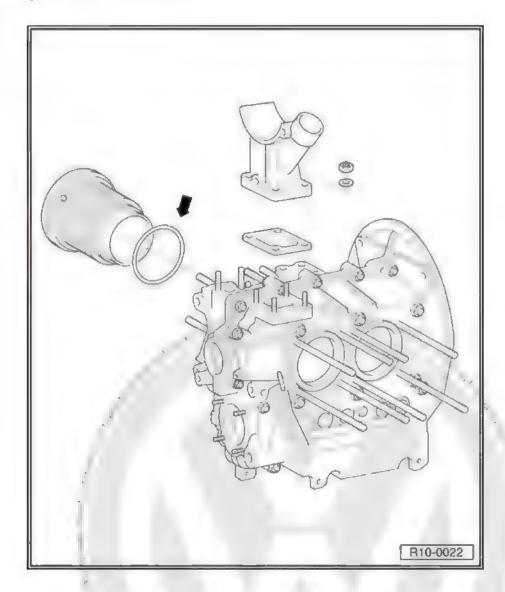
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals ".

6.1 Cylinder base gasket - lubricate

- Air-cooled engines
- Product used
- Multi-purpose grease ⇒ page 10



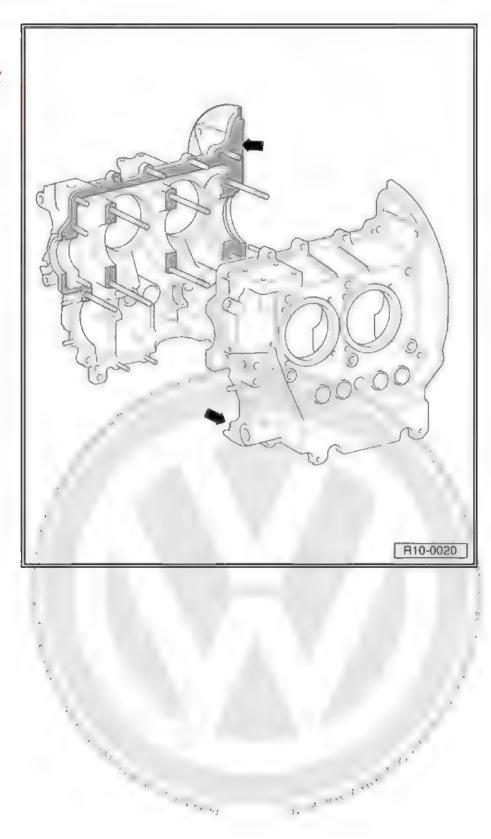
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6.2 Engine housing - seal

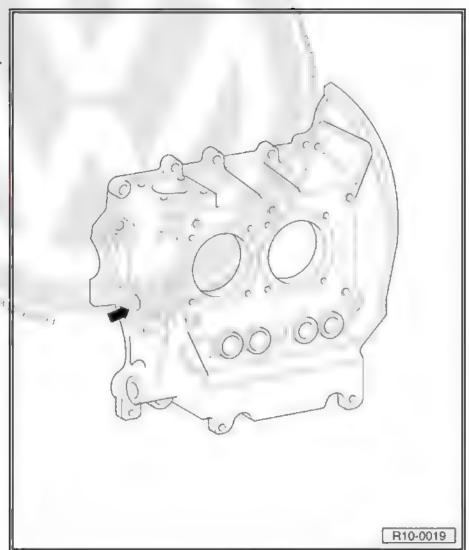
- Air-cooled engines
- Product used
- Sealing adhesive ⇒ page 7





Engine housing plugs - fasten 6.3

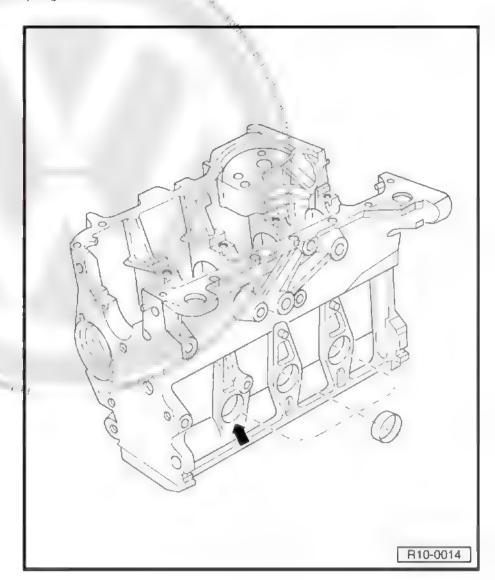
- Air-cooled engines
- Product used
- Medium torque locking adhesive <u>→ page 7</u>





6.4 Cylinder block plugs - fasten

- Water-cooled engines
- Product used
- Locking adhesive for mechanical seal <u>→ page 6</u>



Repair Group 13 - Crankshaft group



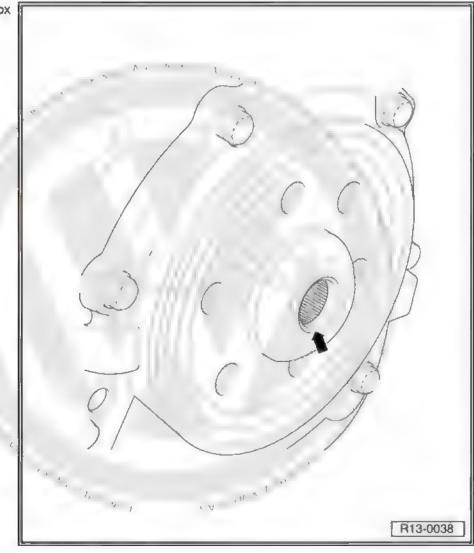
WARNING

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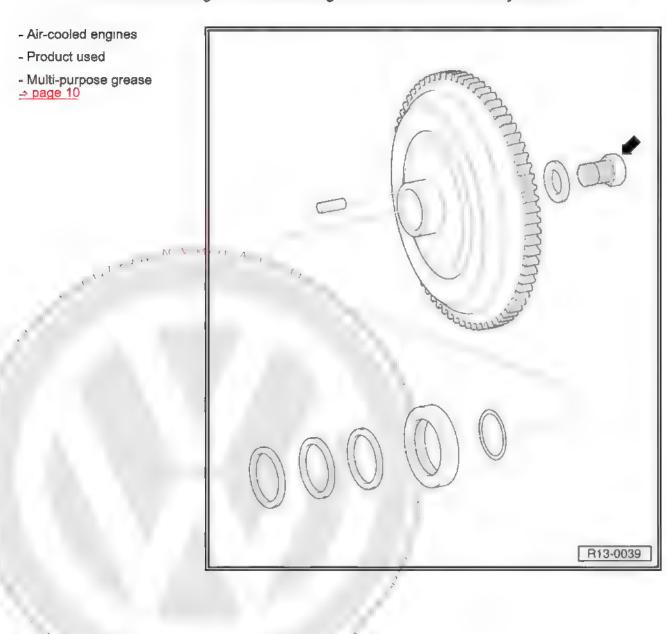
7.1 Crankshaft needle bearing

- All, except automatic gearbox
- Product used
- Multi-purpose grease ⇒ page 10



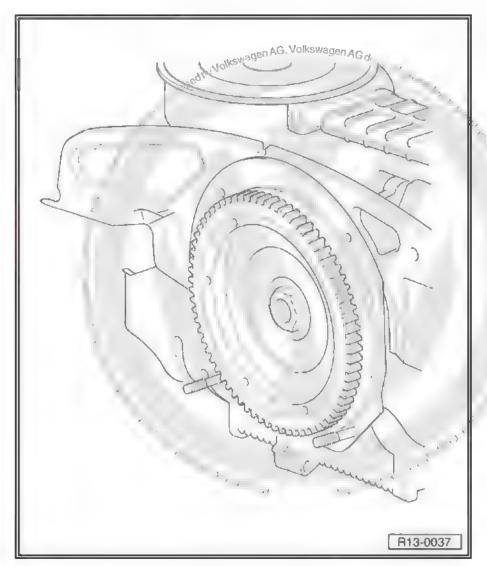


7.2 Needle bearing of the fastening hollow screw for the flywheel





- All
- Product used
- Low viscosity lock adhesive ⇒ page 6





8 Repair Group 15 - Cylinder head, valve gear



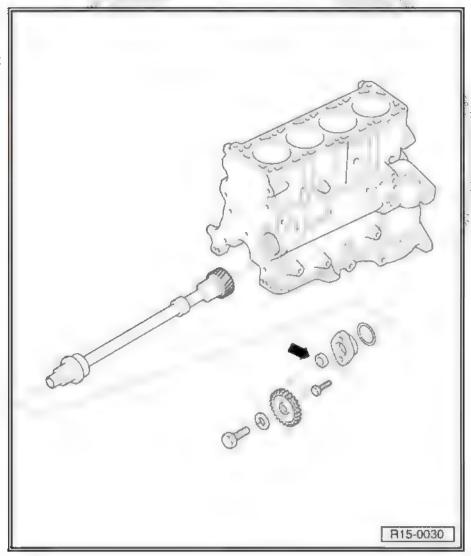
WARNING

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Observe the information in Chapter "Work Instructions for Handling Chemicals".

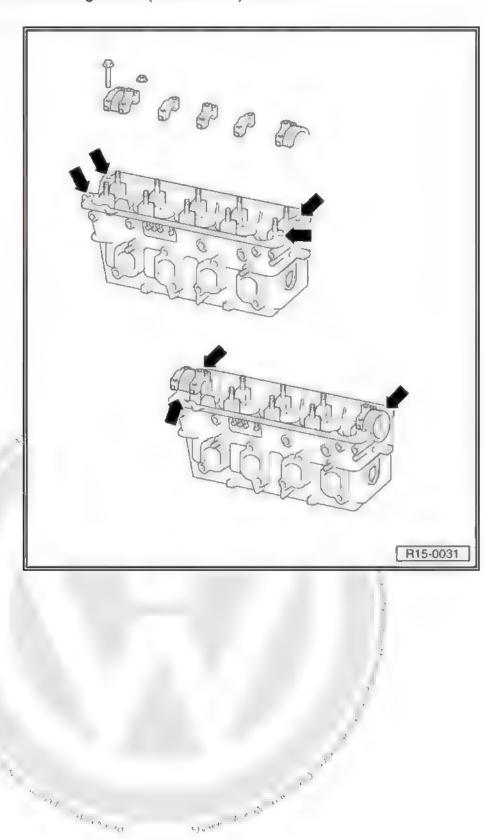
8.1 Intermediate shaft seal - lubricate for assembly

- AP engines, 1.6, 1.8 and 2.0
- Product used
- Lubricating paste for constant velocity joints <u>⇒ page 13</u>



8.2 Camshaft valve bearing cover (1st and 5th) - Seal

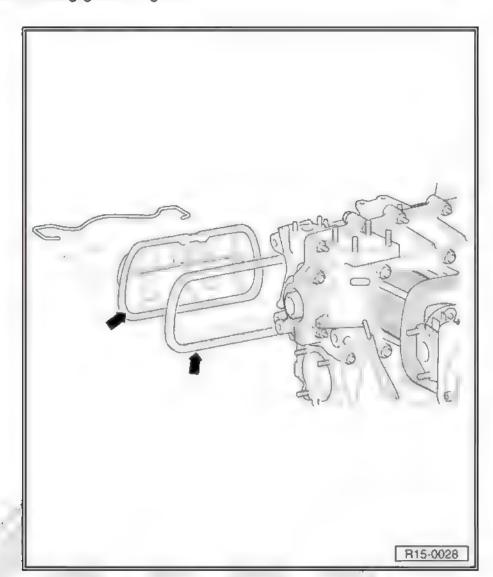
- AT engines, except RSH
- Product used
- Sealing compound for engines <u>⇒ page 13</u>





8.3 Cylinder head sealing gasket - glue

- Air-cooled engines
- Product used
- Sealing gasket adhesive <u>→ page 5</u>

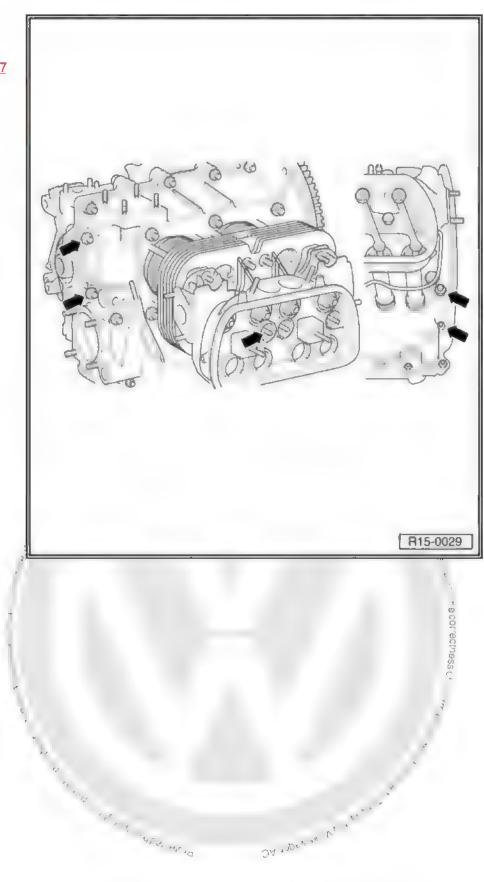






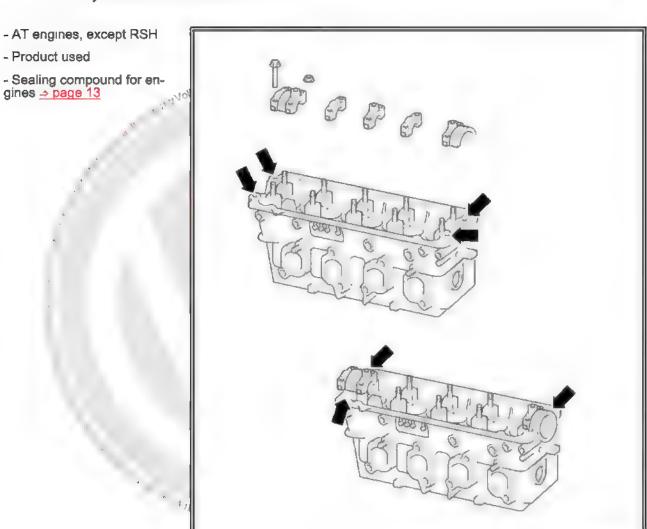
8.4 Lower rear threaded pins fastening the cylinder head - rear threaded pin (crankshaft) / lower front threaded pins (flywheel) - Seal

- Air-cooled engines
- Product used
- Sealing adhesive ⇒ page 7





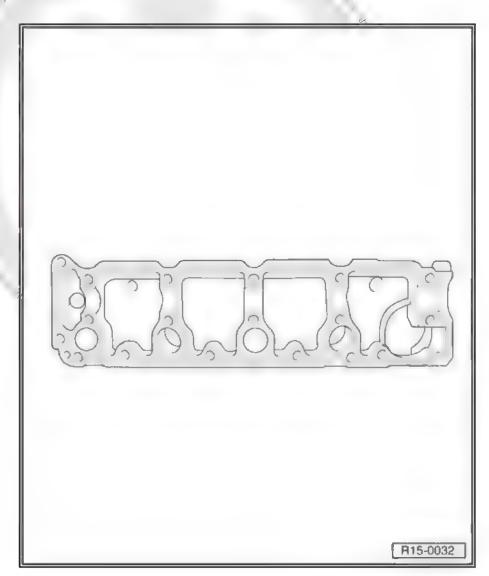
8.5 Cylinder head cover - seal



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Cylinder head cover - seal 8.6

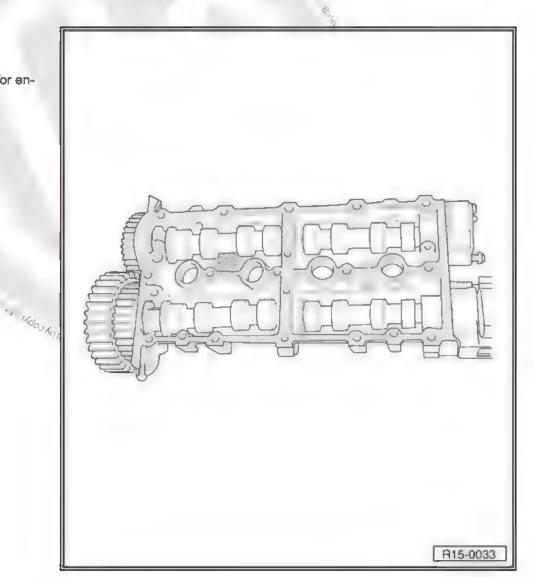
- 8V engine RSH
- Product used
- Sealing compound for en-gines <u>→ page 13</u>





8.7 Cylinder head cover - seal

- 16 V engine RSH
- Productused
- Sealing compound for engines <u>⇒page 13</u>



9

Repair Group 17 - Lubrication system



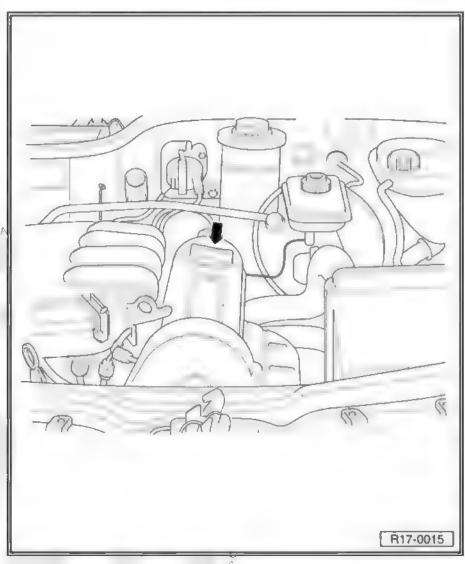
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

9.1 Engine crankcase - Fill / top up oil level

- Product used
- Engines All up to 11/2002 , except Passat 2001 ►
- Multi-purpose engine lubricating, as per VW 501 01 standard ⇒ page 14
- Engines For Passat 2001 ► and all as of 12/2002 ► 12/2014
- Engine lubricating oil with high lubricating capacity, as per VW 502 00 standard ⇒ page 14
- Engines all totalflex এগাঙ্গ[ু]
- Engine lubricating oil with high lubricating capacity, as per VW 508 88 standard ⇒ page 10
- Engines 2.4 Caravelle and Eurgvan
- Lubricating oil for diesel engines according to standard
 VW 505 00 ⇒ page 15
- Engines 2.0 T Amarok (withcout diesel particulate filter -DPF)
- %- Lubricant oil for diesel engines, according to standard VW 509 99 ⇒ page 17
- Engines 2.0 T Amarok (with diesel particulate filter DPF)
- Lubricating oil for diesel engines according to standard VW 507 00 → page 16

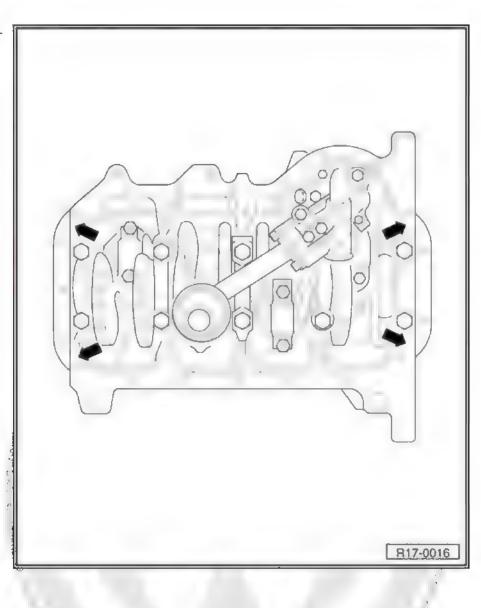


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9.2 Junction between crankcase gaskets and crankshaft front and rear flange gasket - seal

- AP engines with solid crank-case gasket
- Product used
- Engine sealing adhesive
- ⇒ page 6

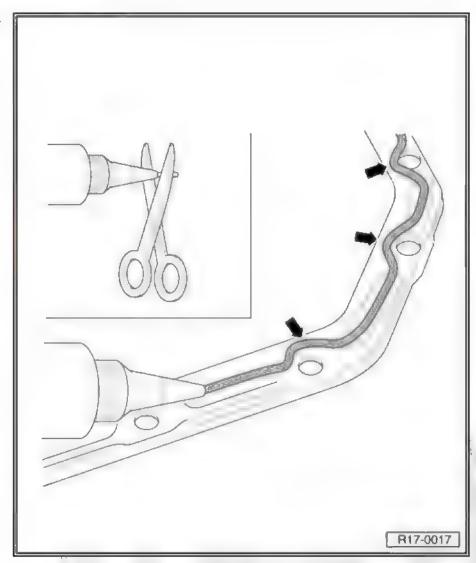


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9.3 Engine crankcase - seal

- Engines without solid crankcase gasket
- Product used
- Silicone sealant for engine ⇒ page 22



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Repair Group 19 - Cooling system 10



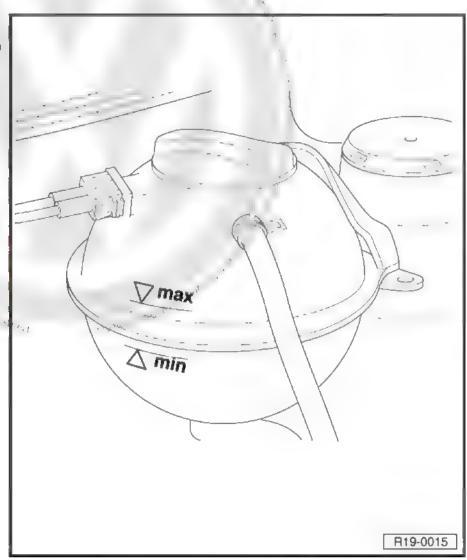
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legis-lation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals.

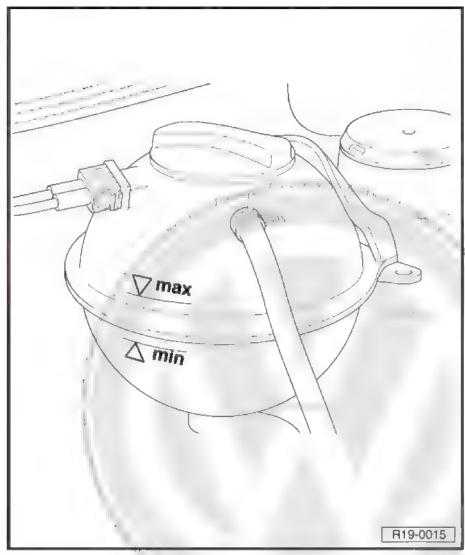
10.1 G11 cooling system - fill / adjust additive proportion

- Water-cooled engines
- *For vehicles manufactured up to 05/01/2000
- Product used
- Coolant additive G11
- ⇒ page 7



10.2 G13 cooling system - fill / adjust additive proportion.

- Water-cooled engines
- *For vehicles manufactured as from 05/02/2000
- Product used
- Coolant additive G13
- ⇒ page 7



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Repair Group 20 - Supply system -11 tank, fuel pump

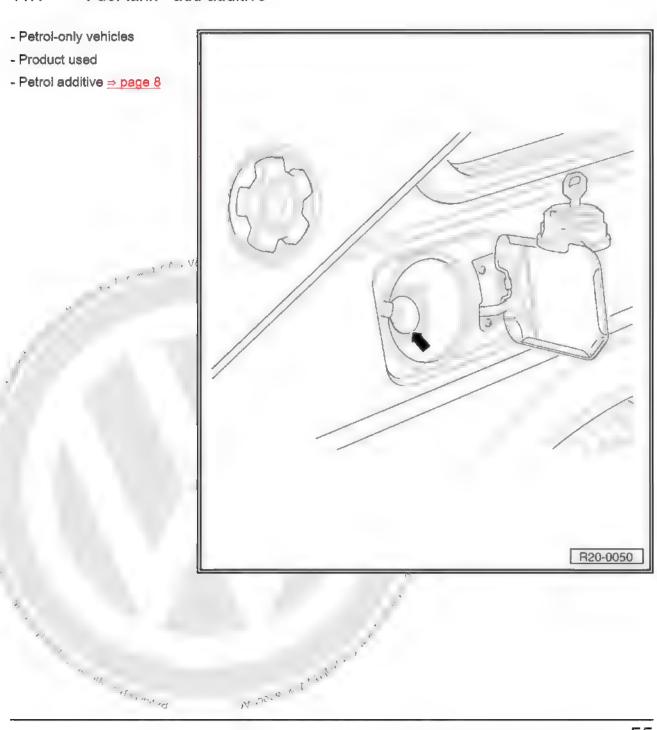


WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

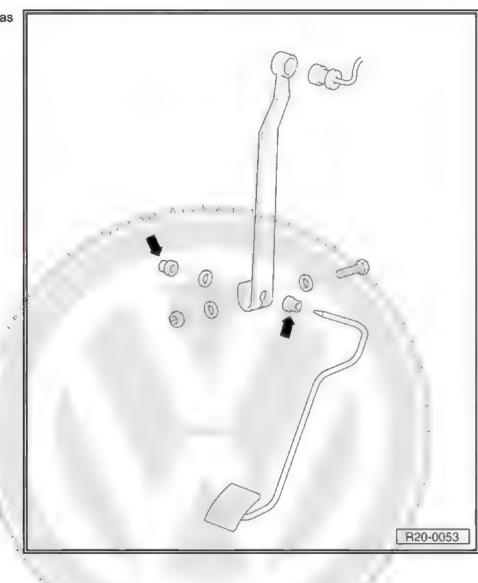
Observe the information in Chapter "Work Instructions for Handling Chemicals".

11.1 Fuel tank - add additive



11.2 Accelerator pedal shaft - lubricate

- All (except Kombi and E-gas vehicles)
- Product used
- White lubricating grease
- ⇒ page 20

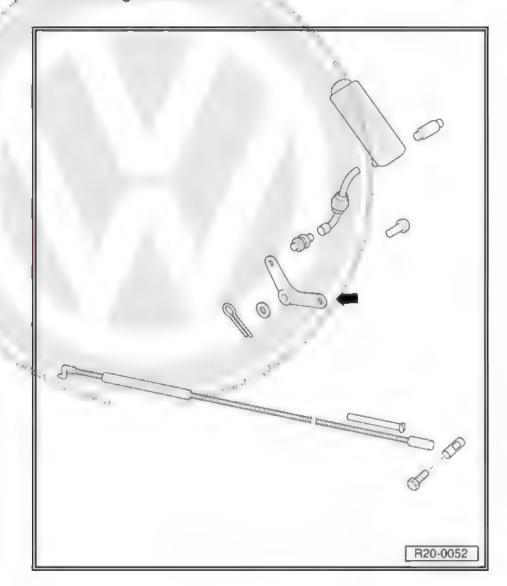


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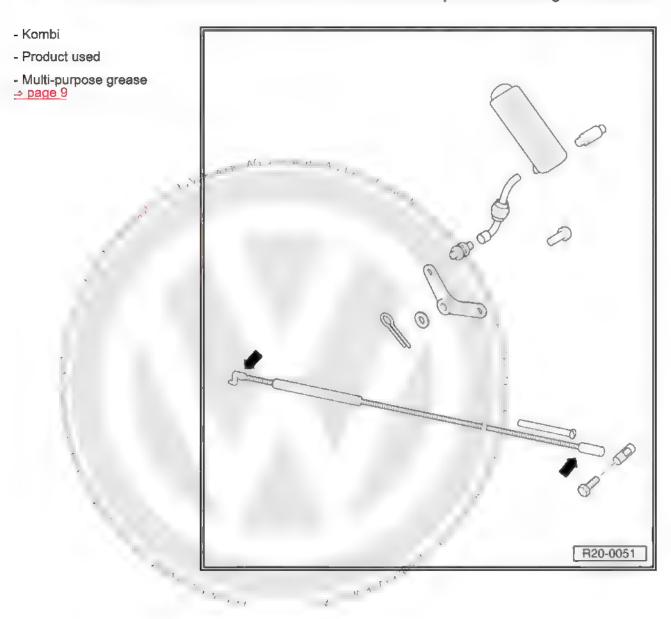


11.3 Accelerator pedal fastening - lubricate

- Kombi
- Product used
- Multi-purpose grease -> page 9



11.4 Accelerator cable and cable end - accelerator pedal fastening - lubricate





Repair Group 26 - Exhaust system 12



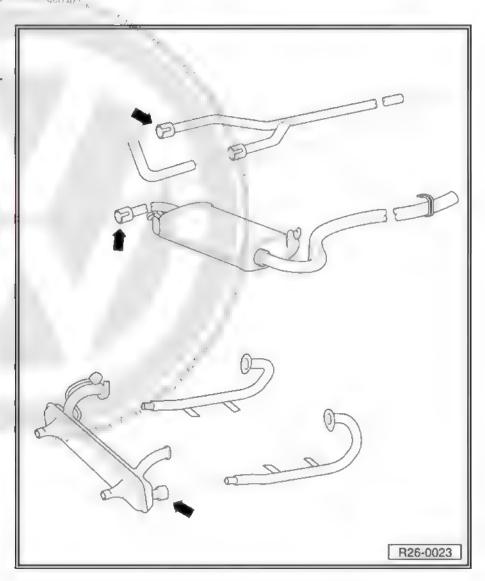
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

12.1 Exhaust connection - seal

- All
- Product used
- Sealant for exhaust connections ⇒ page 22



13 Repair Group - 28 - Ignition system, pre-ignition system



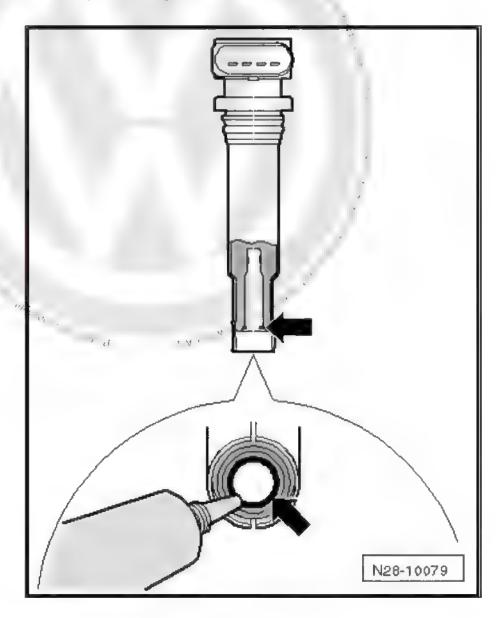
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

13.1 Ignition coils with final power stage - lubricate

- Engines with ignition coils with final power stage
- Product used
- Silicon lubricating grease ⇒ page 20





Repair Group 30 - Clutch - control 14 system



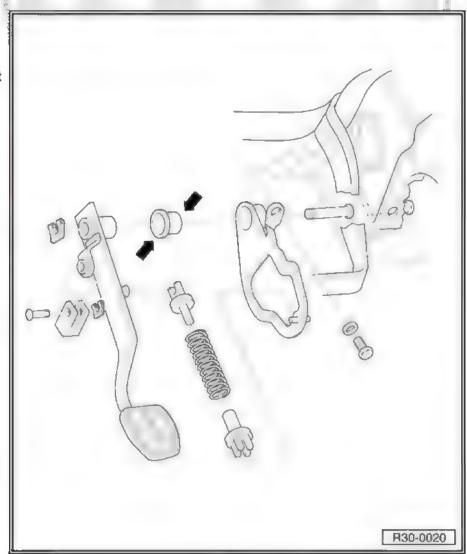
WARNING

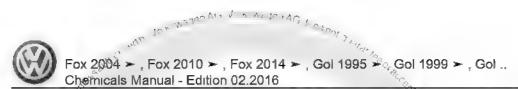
Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals ".

Clutch pedal bung - lubricate 14.1

- Gol GTI 16 V and Parati GTI
- Product used
- Lubricating paste for constant velocity joints <u>⇒ page 13</u>





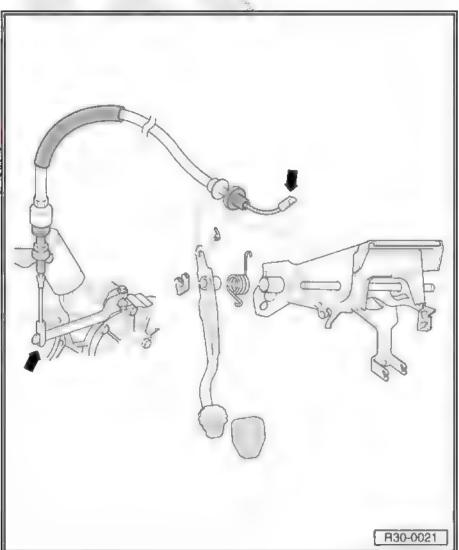
Clutch control cable - lubricate

- Gof, Parati, Saveiro and San-
- Product used
- Eubricating paste for constant velocity joints <u>→ page 13</u>



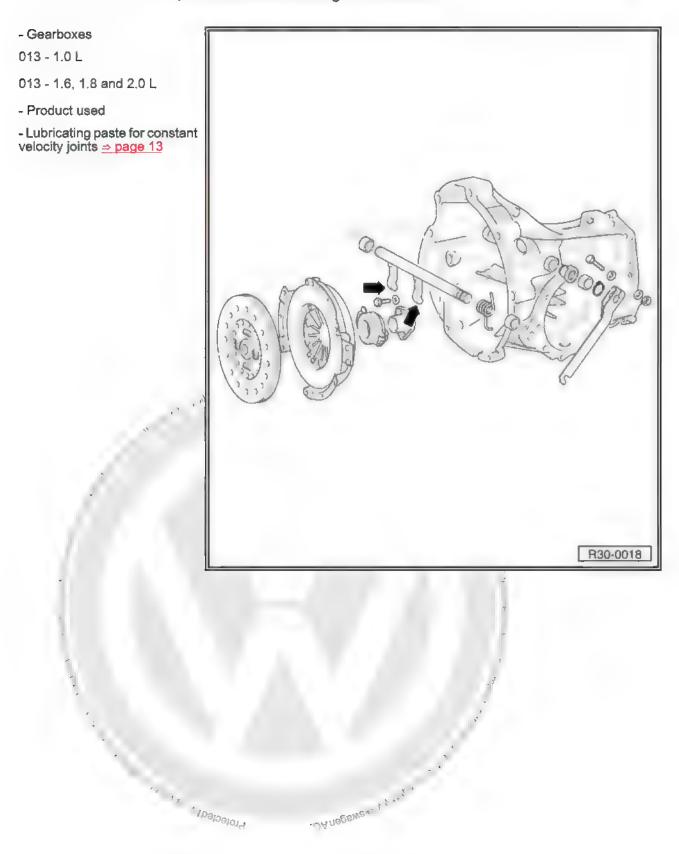
Note

Lubrication of the cable the clutch lever, in the g only valid for 1.6, 1.8 at gines manufactured un





Clutch fork, contact with bearing - lubricate 14.3



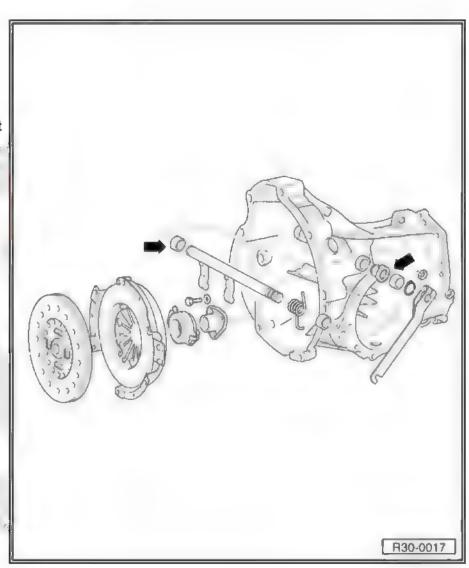
14.4 Clutch fork bungs - lubricate

- Gearboxes

013 - 1.0 L

013 - 1.6 L , 1.8 L and 2.0 L

- Product used
- Lubricating paste for constant velocity joints <u>⇒ page 13</u>

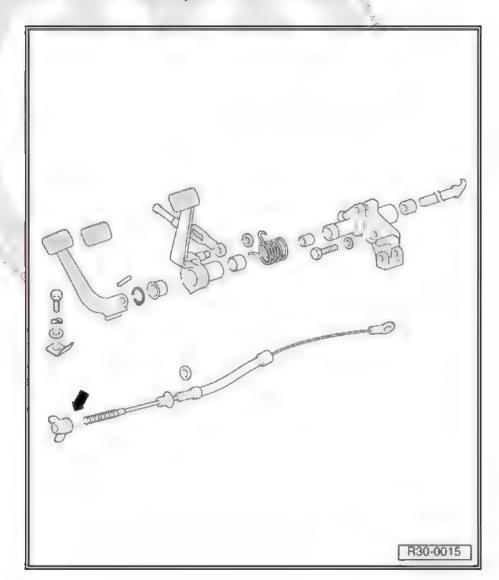


14.5 Wing nut/for clutch control cable adjustment - lubricate

- Gearbox

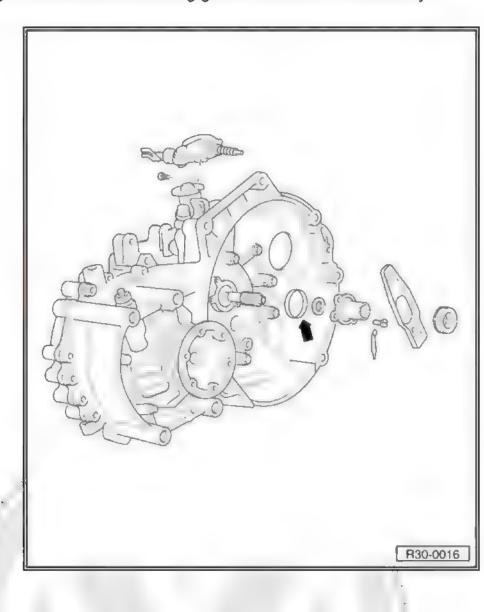
081

- Product used
- Multi-purpose grease ⇒ page 10 ຜ່



Sealing ring for the de-clutch bearing guide - lubricate for assembly 14.6

- Gearboxes
 - MQ 200
 - MQ 250
- Product used
- Multi-purpose grease
- ⇒ page 10

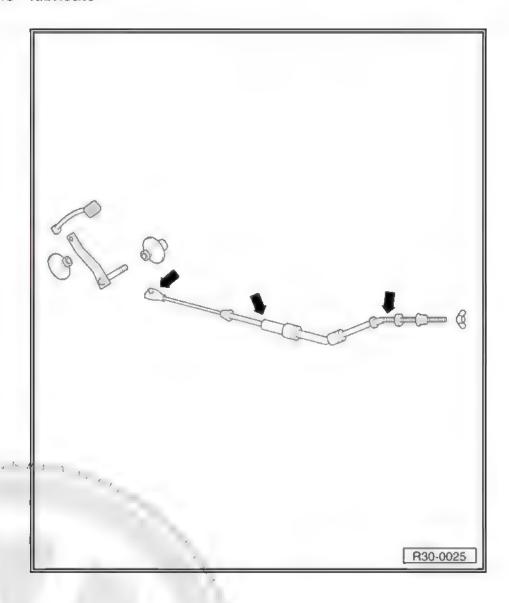




14.7 Clutch cable - lubricate

- Kombi
- Product used
- Multi-purpose grease <u>→ page 9</u>

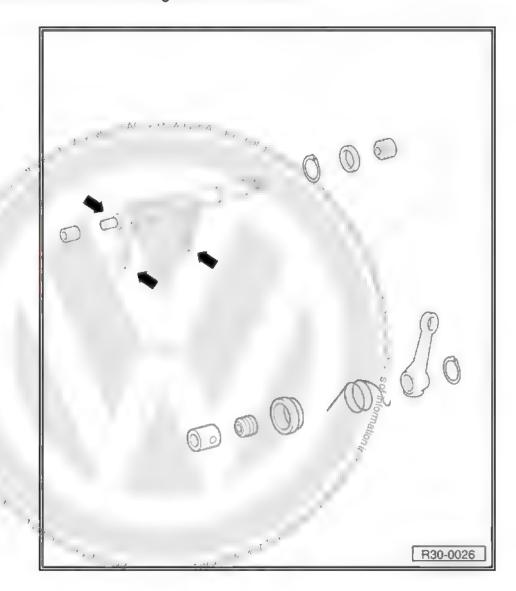




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14.8 Clutch fork and clutch actuating lever - lubricate

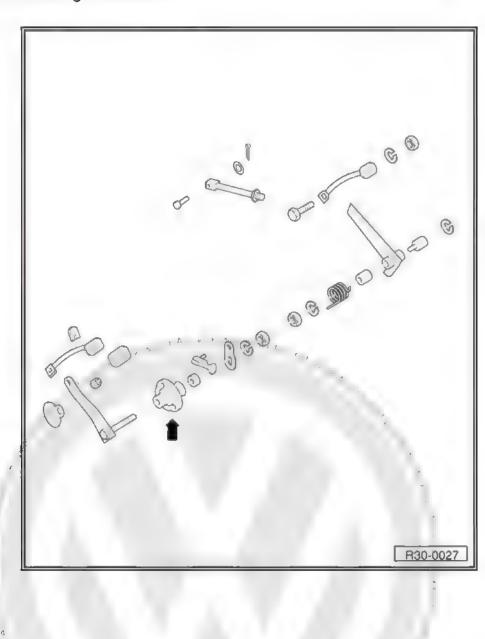
- Gearbox
 - 081
- Product used
- Multi-purpose grease ⇒ page 9



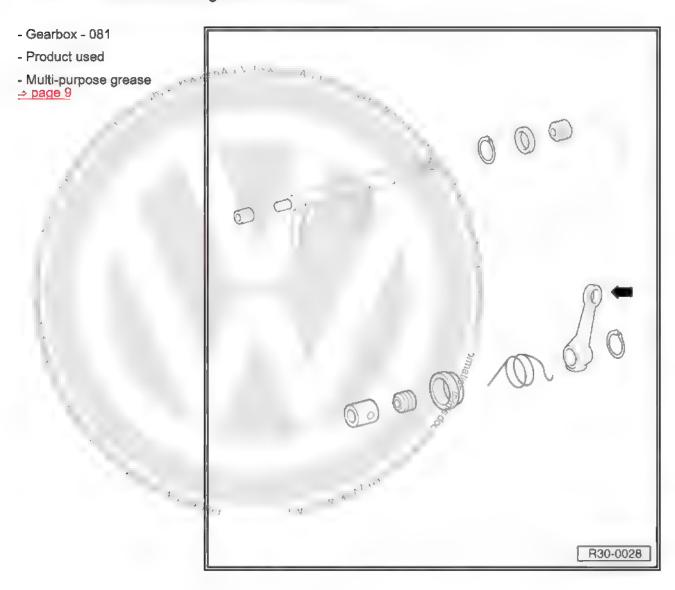


Clutch pedal fastening - lubricate 14.9

- Kombi
- Product used
- Multi-purpose grease <u>→ page 9</u>



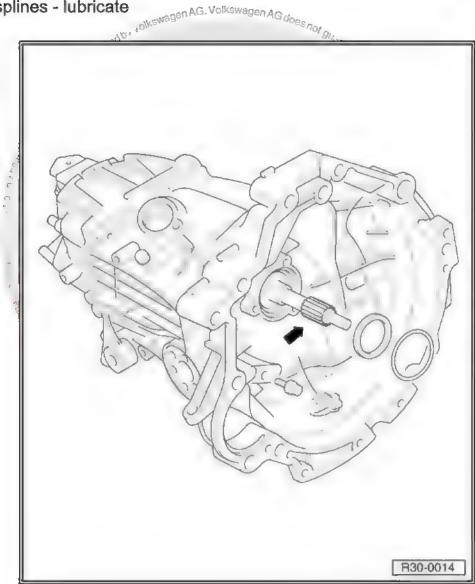
14.10 Clutch actuating lever - lubricate



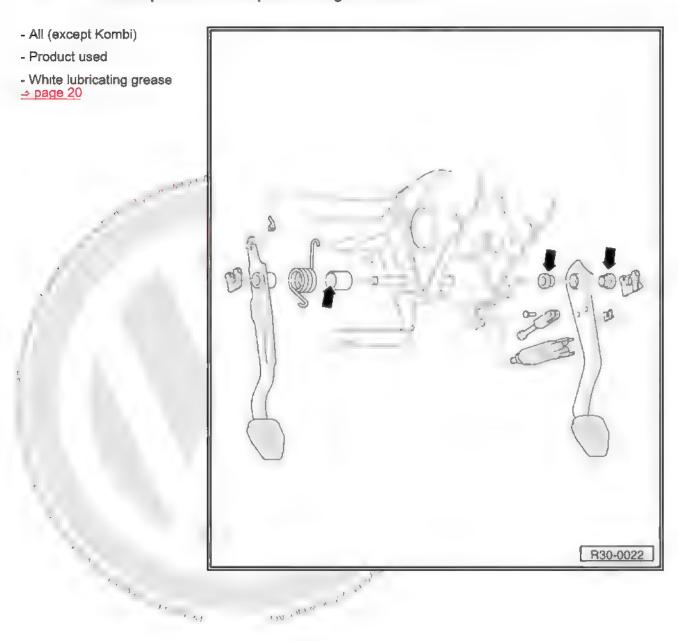


Input shaft splines - lubricate 14.11

- Gearboxes
 - □ 013 1.0 L
 - □ 013 1.6 L, 1.8 L and 2.0 L
- Product used
- Multi-purpose grease
- ⇒ page 9



14.12 Clutch pedal / clutch pedal bung - lubricate





Pedal support - seal 14.13

- Product used
- Sealing compound <u>→ page 13</u>
- -7X0 898 539-

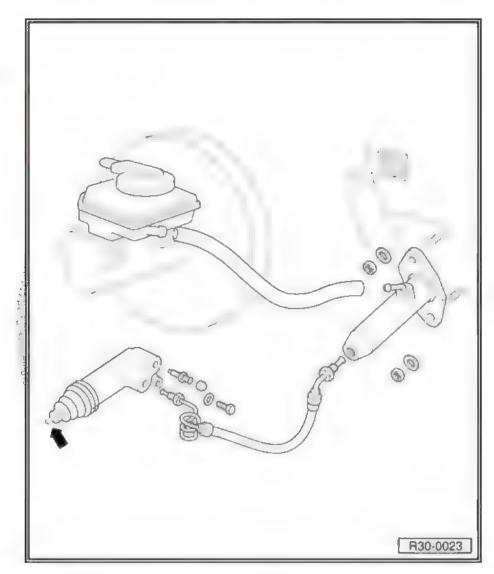


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Clutch fork contact with the hydraulically activated cylinder of the gearbox 14.14 clutch - lubricate

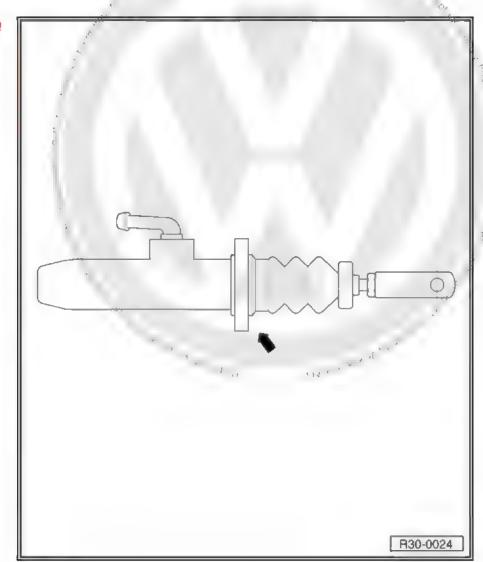
- Gearbox -
- Product used
- Copper grease → page 20





14.15 Fastening flange for clutch slave cylinder - seal

- Gearbox ⇒ Item (page 74)
- Product used
- Sealing compound



Repair Group - 34 - Drive, housing 15



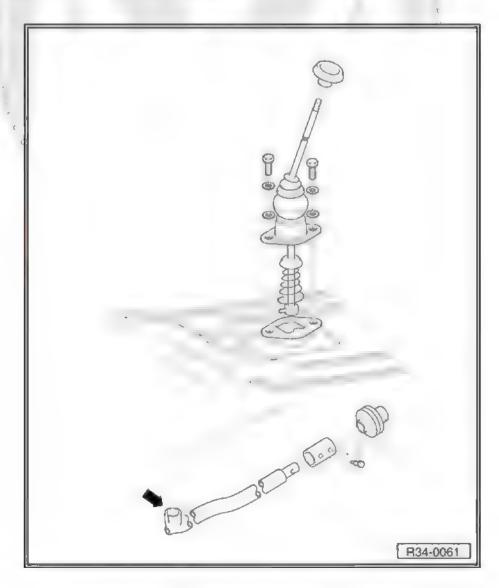
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

15.1 Linkage rod, front/rear section - lubricate

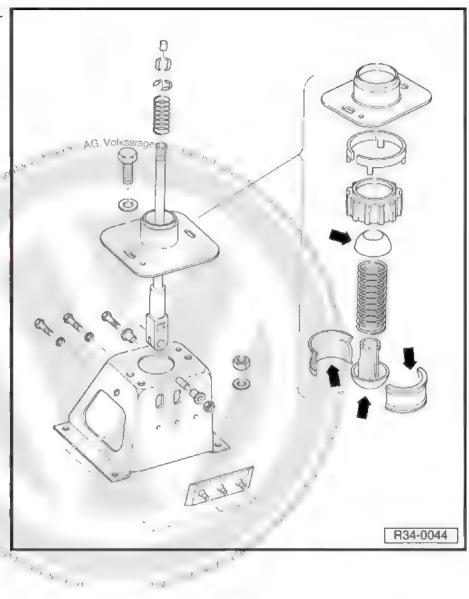
- Kombi
- Product used
- Multi-purpose grease ⇒ page 10



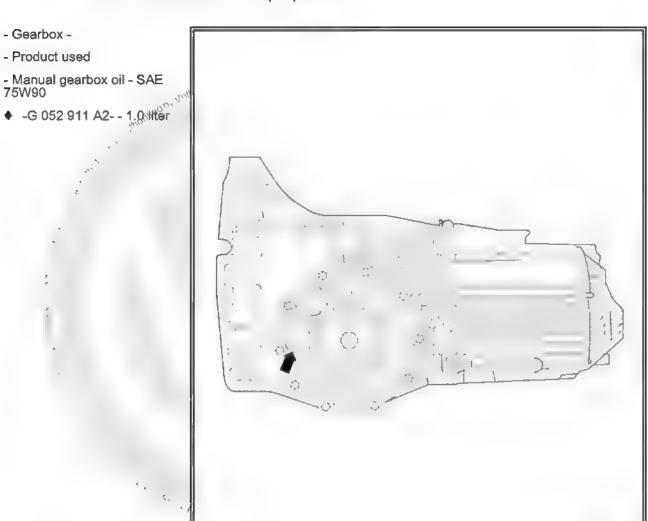


15.2 Gear lever bearing

- Gol, Parati, Saveiro and San-
- Product used
- Special lubrication grease ⇒ page 10



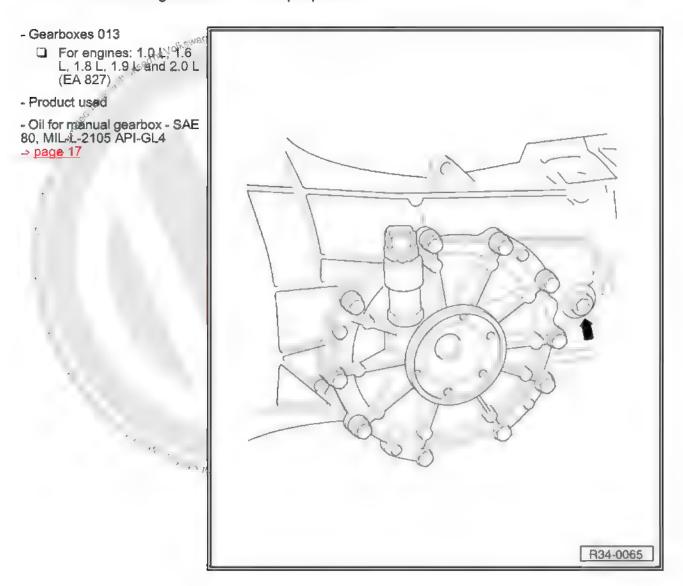
15.3 Manual Gearbox - fill / top up level



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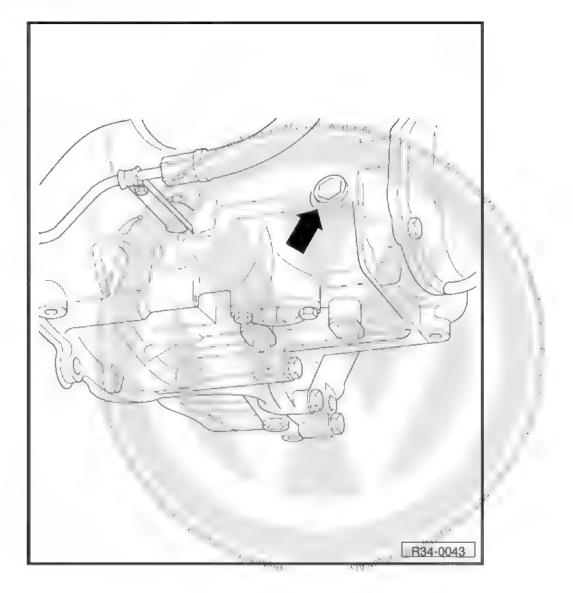
15.4 Manual gearbox - Fill / top up level





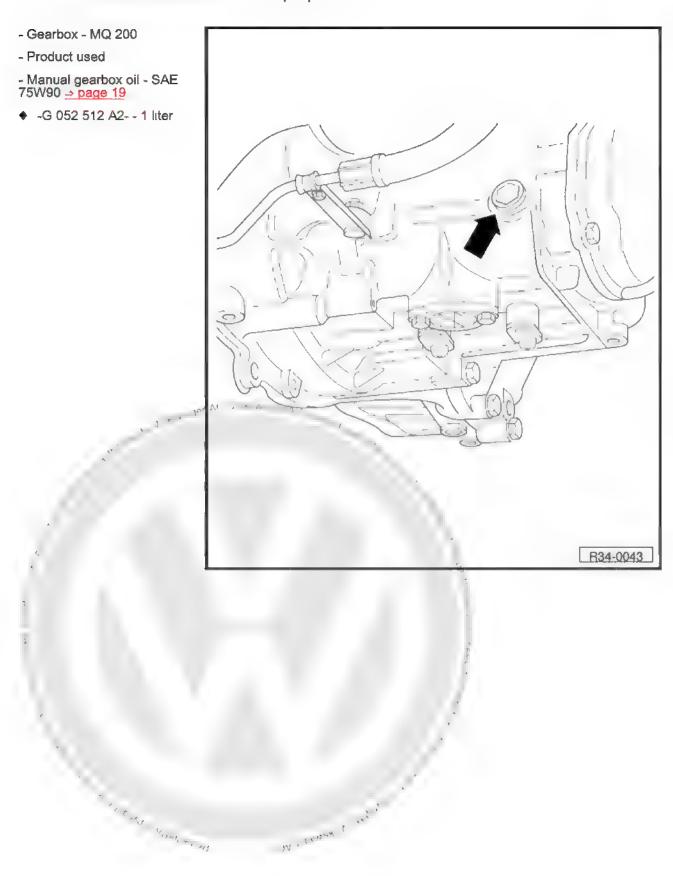
15.5 Manual Gearbox - fill / top up level

- Gearbox MQ 250
- Product used
- Manual gearbox oil SAE 75W90 <u>→ page 18</u>
- -G 005 100 A1- 1 liter
- -G 052 512 A2- 1 liter





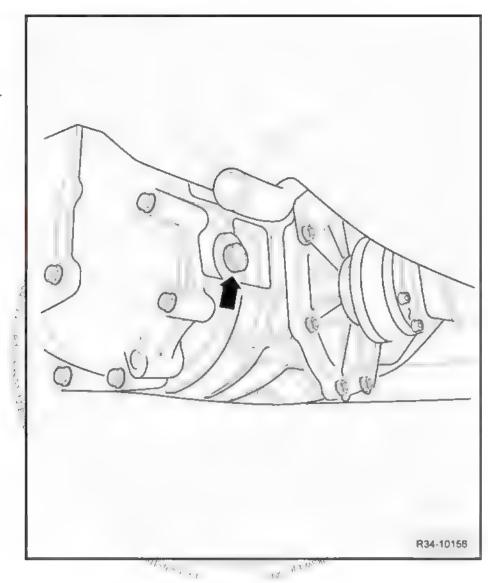
15.6 Manual Gearbox - fill / top up level





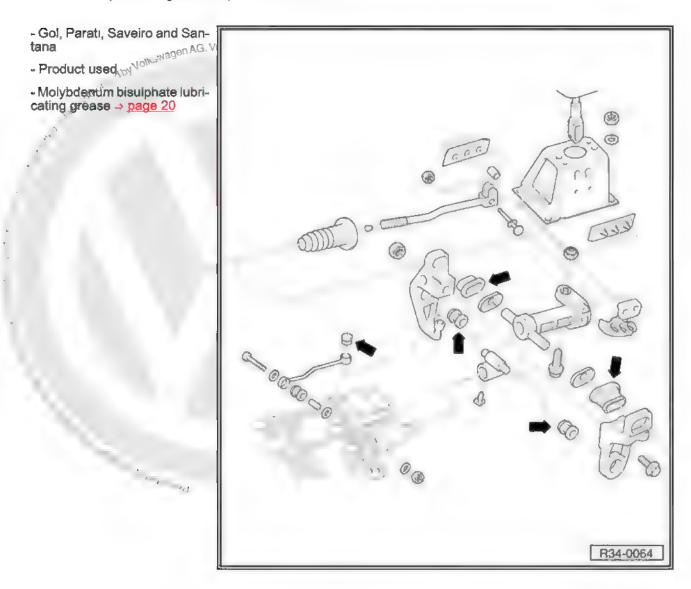
15.7 Manual Gearbox - fill / top up level

- Gearbox 081 Kombi
- Product used
- Lubricating oil for manual gearbox and steering box -SAE 90, MIL-L-2105B, API-GL5 <u>⇒ page 17</u>

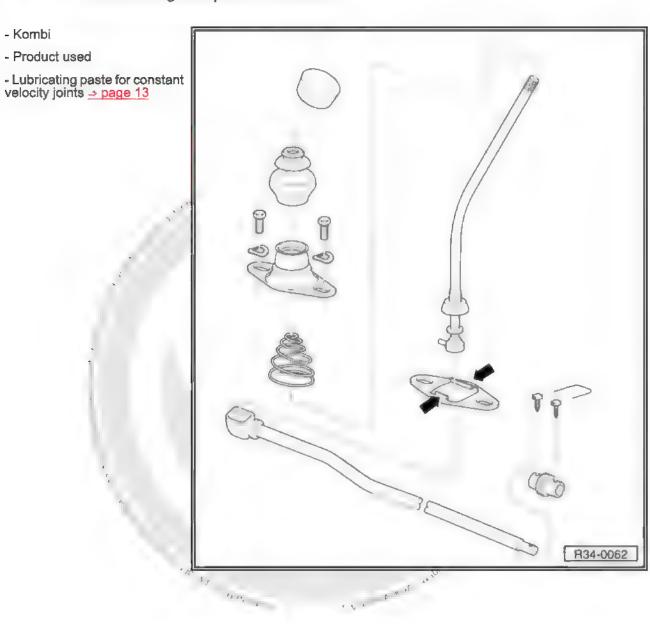




Plastic sleeves for the linkage rod coupling system / linkage rod / supports 15.8 (on the gearbox) - lubricate

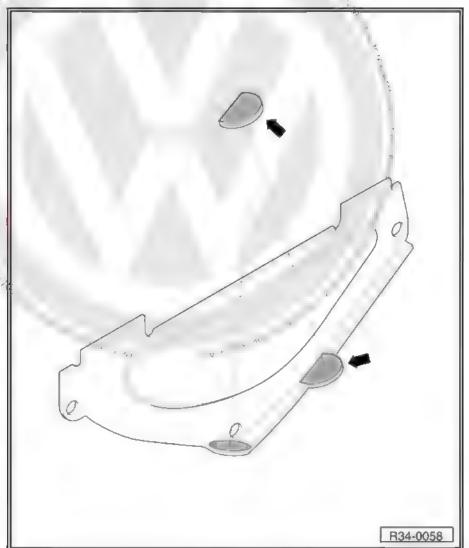


15.9 Gear lever guide plate - lubricate



Rubber shim for the clutch compartment cover - glue 15.10

- Gol, Parati, Saveiro and Sen-tana
- Product used
- Adhesive for finishing and lining ⇒ page 6



15.11 Clutch compartment cover - seal

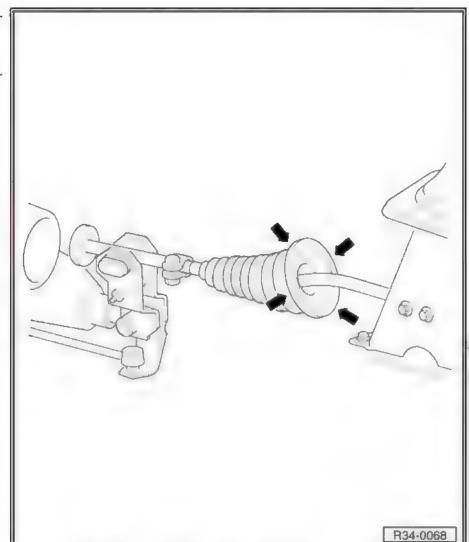
- Gol, Parati, Saveiro and San-
- Product used
- Sealing compound





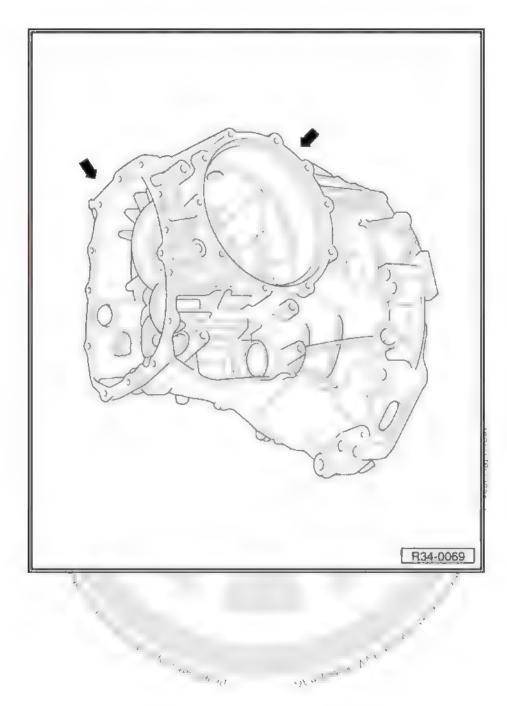
Linkage rod bellows for the gear lever assembly - fasten / seal 15.12

- Gol, Parati, Saveiro and San-
- Product used
- Adhesive for finishing and lining <u>⇒ page 6</u>



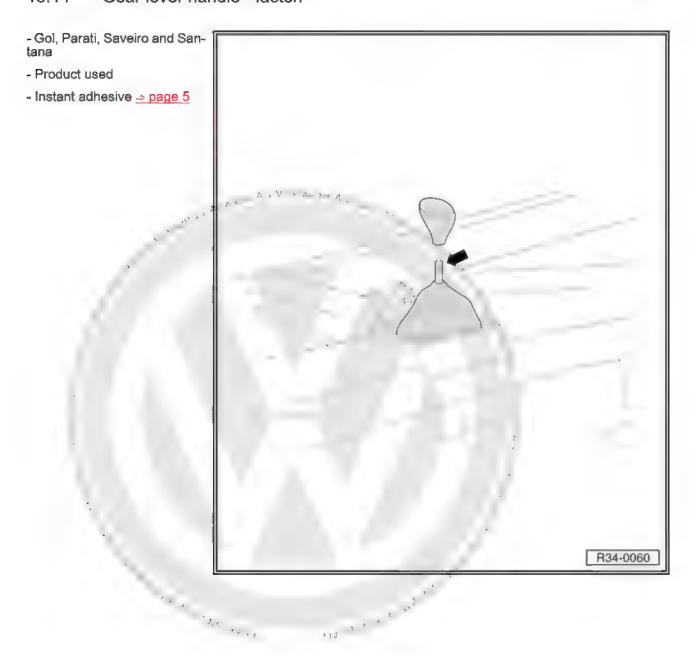
15.13 Junction of cases and differential cover housing (transfer box / differential) - seal

- Gearbox -
- Product used
- Sealing compound <u>⇒ page 13</u>





15.14 Gear lever handle - fasten



1.7,

15.15 Fastening screw for the rear support of the gearbox cushion - seal

- Gol, Parati, Saveiro and San-
- Product used
- Low viscosity lock adhesive ⇒ page 6

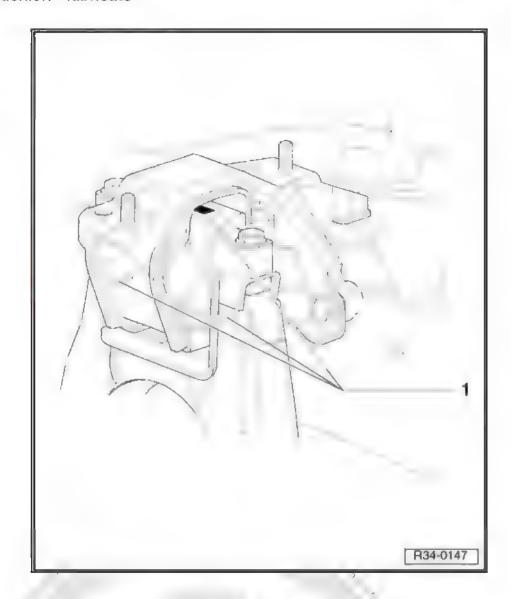


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15.16 Gearbox cushion - lubricate

- Manual gearbox
- ♦ For Fox and Polo
- Product used
- Silicone based grease
- ⇒ <u>page 11</u>

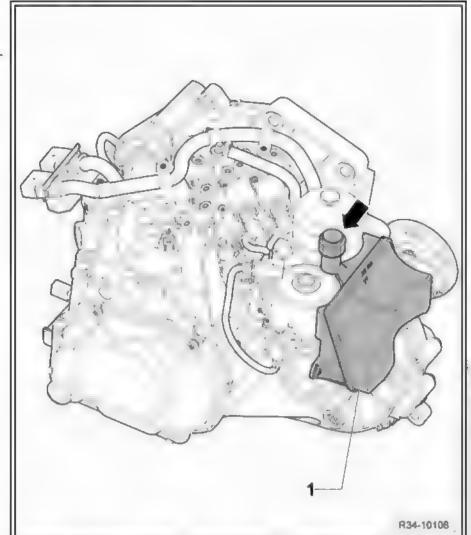


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15.17 Gear selection mechanism - fill up

- Gearbox SQ 200
- Product used
- Oil for gear selection mechanism <u>→ page 19</u>
- -G 052 512 S1- 1 liter

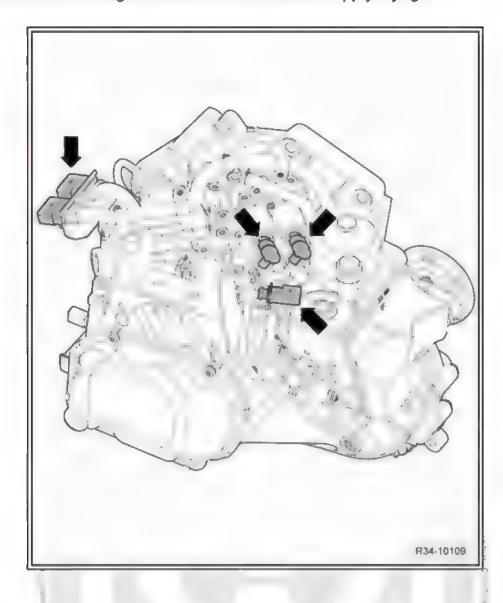


LIA: KA W. FY.



Electric connectors of the gear selection mechanism - apply Nyogel 15.18

- Gearbox SQ 200
- Product used
- Nyogel ⇒ page 13
- ◆ -G 052 817 A1-



16 Repair Group 35 - Gears and shafts



- Gearbox -

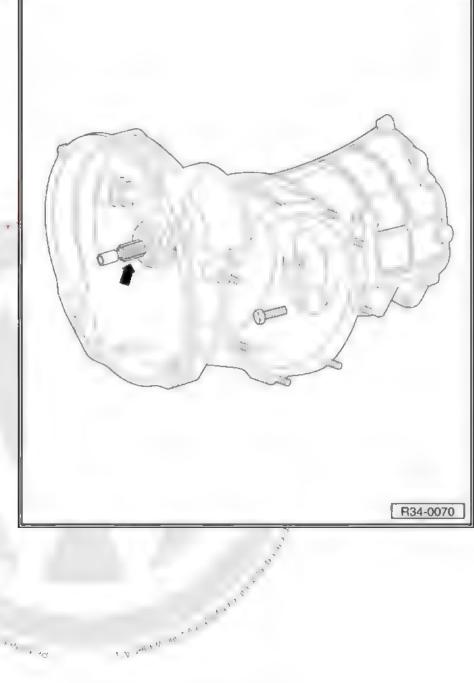
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

16.1 Input shaft splines - lubricate

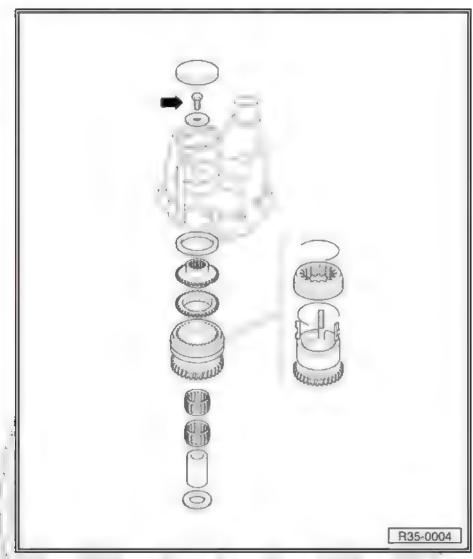
- Product used
- Multi-purpose grease
⇒ page 9





Fastening screw for the clutch assembly / 5th gear synchronizer - lock 16.2

- Gearboxes -
 - □ 013 1.0 L
 - □ 013 1.6 L , 1.8 L and 2.0 L
- Product used
- Low viscosity lock adhesive
- ⇒ page 6



Repair Group - 37 - Drive, housing 17



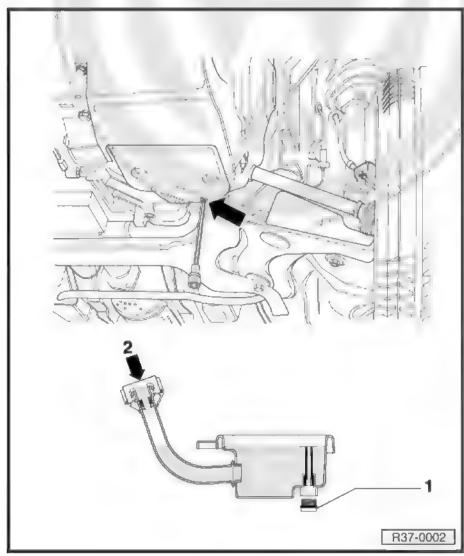
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legis-lation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

Planetary gear box (automatic gearbox) - fill / top up oil level 17.1

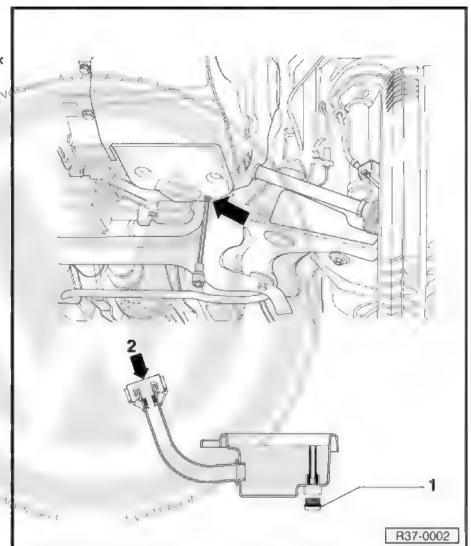
- Gearboxes
- Product used
- ATF oil for automatic gearbox ⇒ page 19
- -G 052 162 A2- 1.0 liter





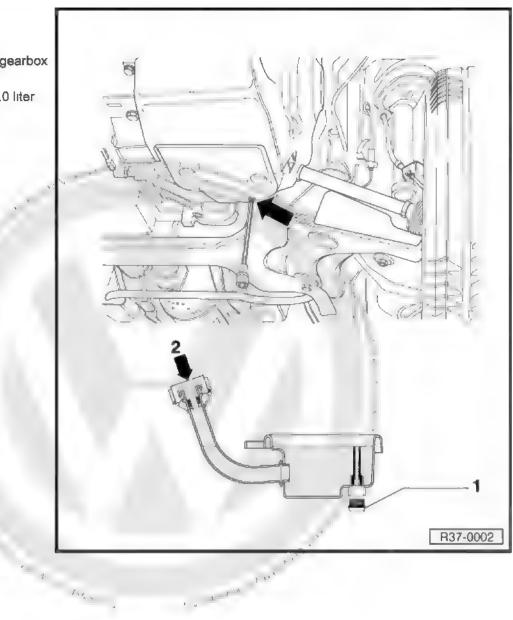
17.2 Planetary gear box (automatic gearbox) - fill / top up oil level

- Gearboxes
- Product used
- ATF oil for automatic gearbox ⇒ page 19
- ♦ -G 052 990 A2- 1.0 liter



17.3 Planetary gear box (automatic gearbox) - fill / top up oil level

- Gearboxes 09G
- Product used
- ATF oil for automatic gearbox <u>⇒ page 19</u>
- -G 055 025 A2- 1,0 liter



Volkswagen AGch



Repair Group - 39 - Gearbox shafts, 18 differential



WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

18.1 Gearbox side seals - lubricate

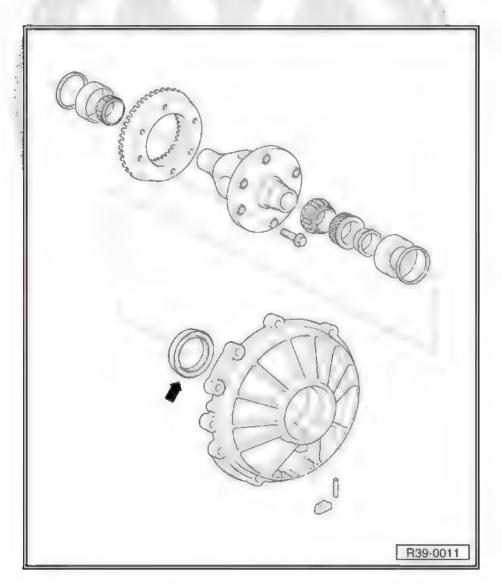
- Gearboxes -

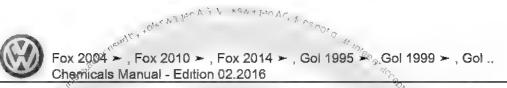
013 - 1.0 L

013 - 1.6 L , 1.8 L and 2.0 L

081

- Product used
- Grease for gearbox side seals ⇒ page 11





18.2 Planetary and satellite gears - lubricate for assembly

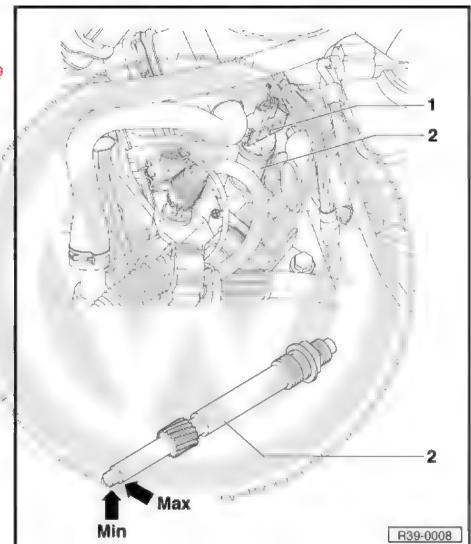
- Gearbox
- Product used
- Multi-purpose grease <u>→ page 9</u>





18.3 Automatic gearbox differential - top up oil level

- Gearboxes 01M
- Product used
- Automatic gearbox differential oil SAE 75W90 <u>⇒ page 19</u>
- ♦ -G 052 145 S2- 1.0 litre





18.4 Differential cover with gearbox housing - seal

- Gearboxes -

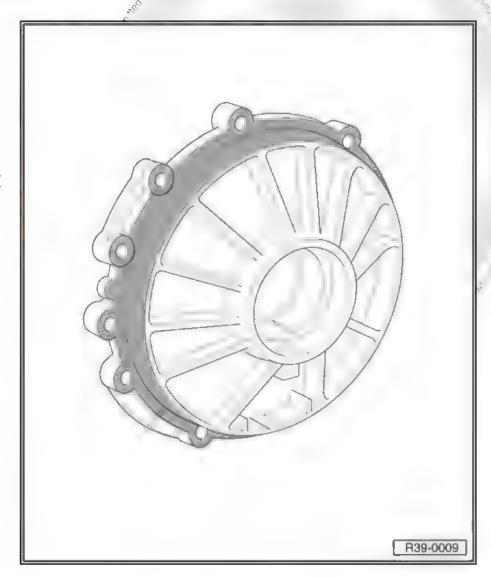
012 - 2.0 16v

013 - 1.0 L

013 - 1.6 L , 1.8 L and 2.0 L

081

- Authorized product
- Sealing adhesive ⇒ page 7



19 Repair Group - 40 - Front suspension



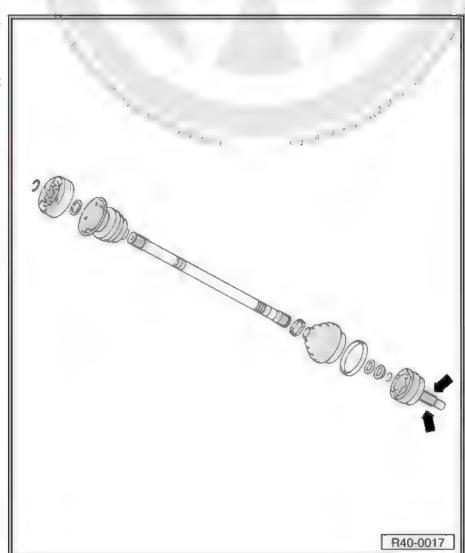
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter Work Instructions for Handling Chemicals".

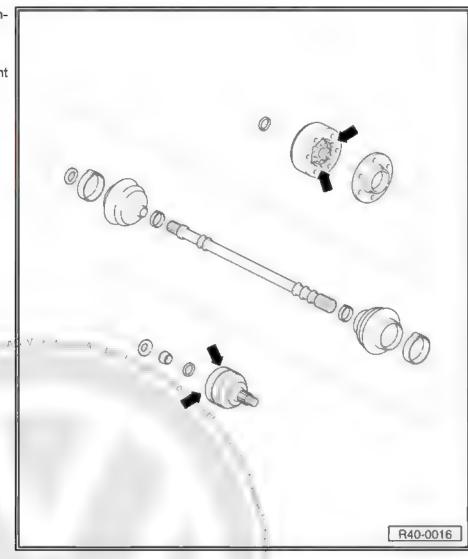
19.1 Constant velocity joint spline - lubricate

- Gol, Parati, Saveiro and Santana
- Product used
- Lubricating paste for constant velocity joints <u>⇒ page 13</u>



Inner and outer constant velocity joint - lubricate 19.2

- Gol, Parati, Saveiro and San-
- Product used
- Lubricating paste for constant velocity joints <u>→ page 13</u>





Front wheel bearing mounting - lubricate 19.3

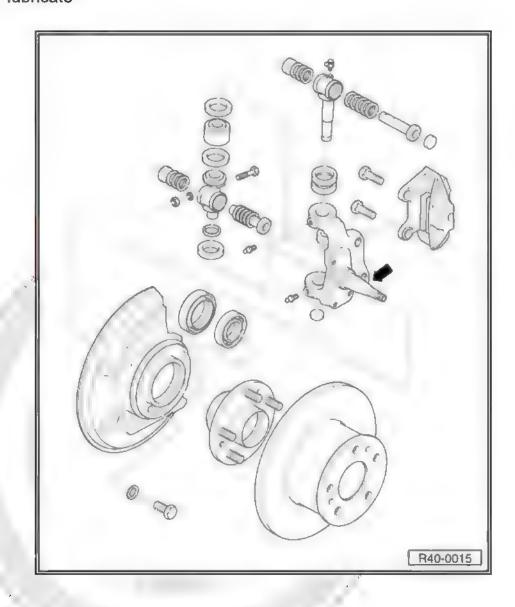
- Gol, Parati, Saveiro and San-
- Product used
- White lubricating grease ⇒ page 20





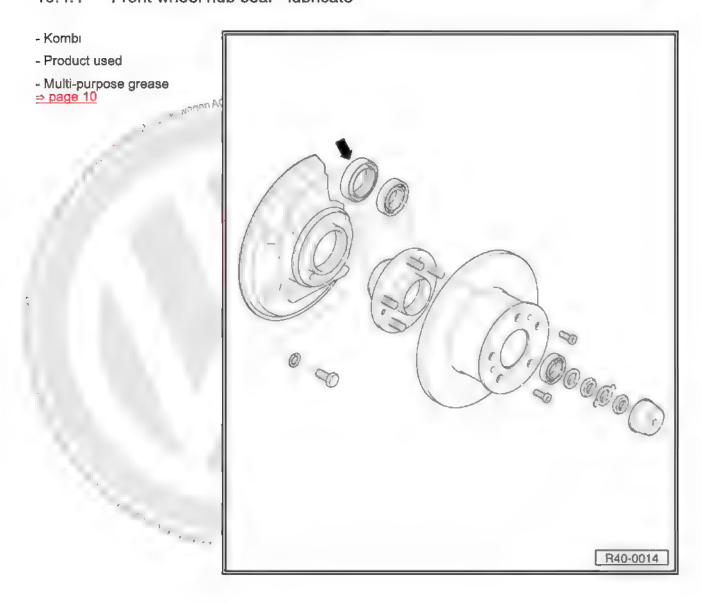
19.4 Axle end - lubricate

- Kombi
- Product used
- Multi-purpose grease <u>→ page 10</u>





19.4.1 Front wheel hub seal - lubricate



19.4.2 King pin bearing - lubricate

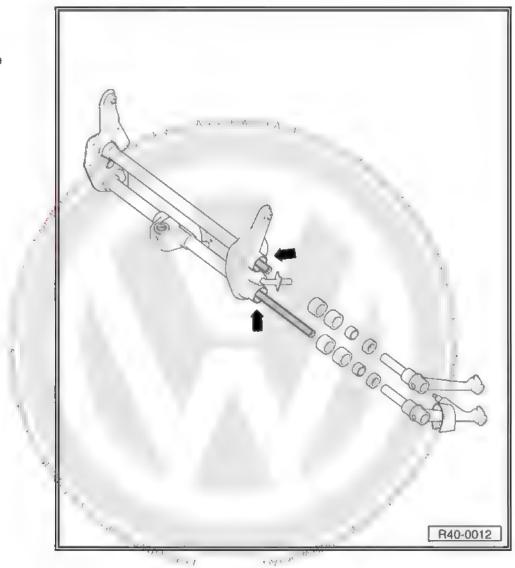
- Kombi
- Product used
- Multi-purpose grease <u>→ page 10</u>





19.4.3 Front axle beam - lubricate

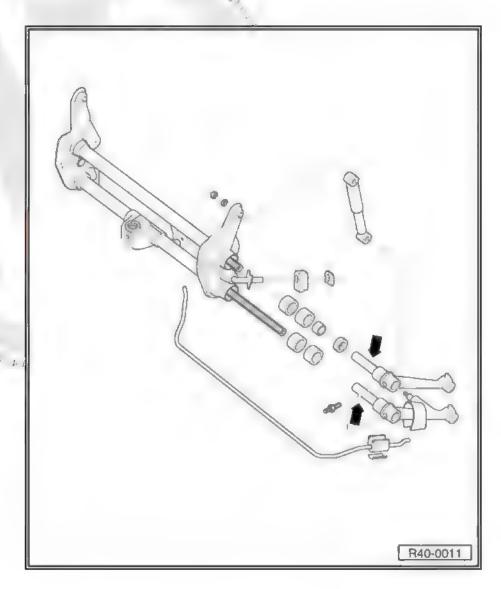
- Kombi
- Product used
- Multi-purpose grease -> page 10





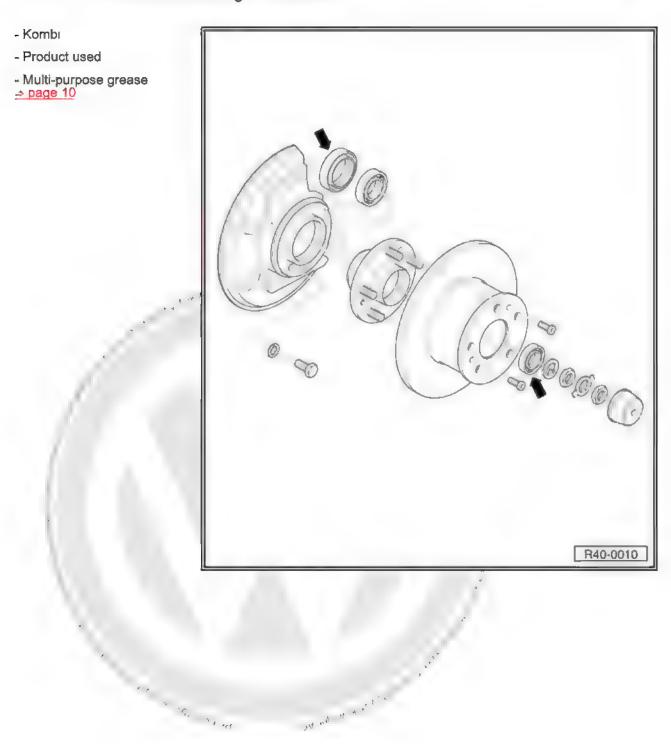
Suspension arms - lubricate 19.4.4

- Kombi
- Product used
- Miulti-purpose grease ⇒ page 10



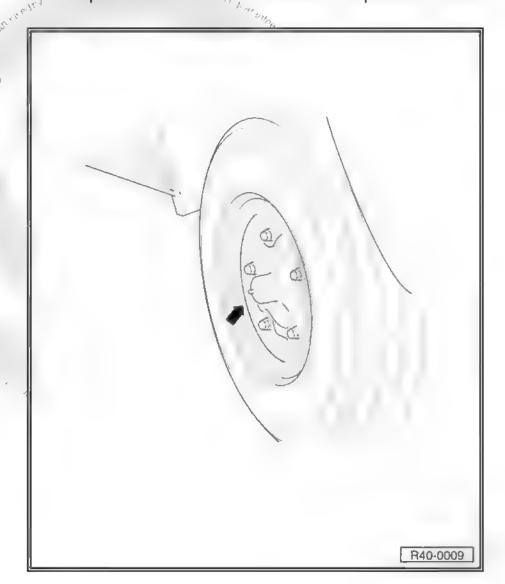


Front wheel bearing - lubricate 19.4.5



Passage hole for the speedometer cable in the wheel hub protector - seal 19.4.6

- Kombi
- Product used
- Sealing compound MKD 106 007 40-





Repair Group - 42 - Rear suspension 20



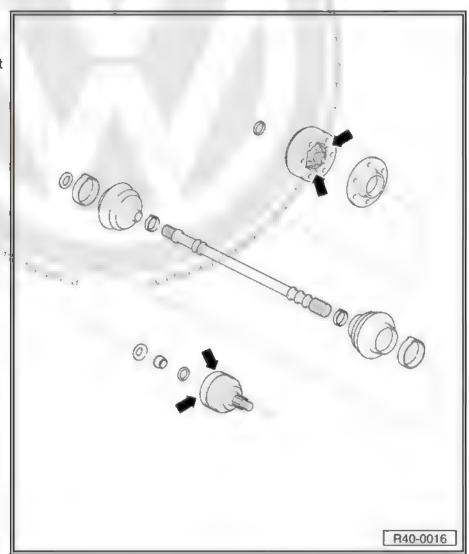
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals 3

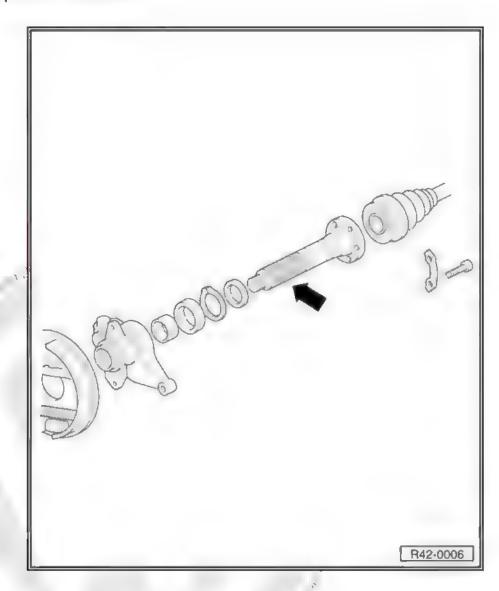
20.1 Inner and outer constant velocity joint - lubricate

- Kombi
- Product used
- Lubricating paste for constant velocity joints ⇒ page 13



20.2 Shaft end splines - lubricate

- Kombi
- Product used
- Multi-purpose grease <u>→ page 9</u>



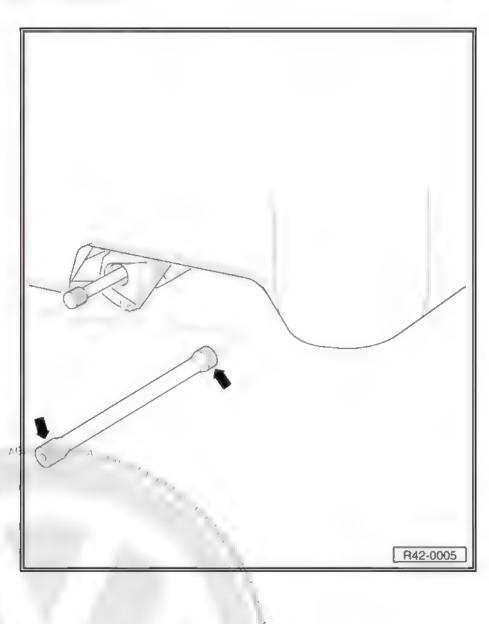
.,4, ,41, ,,



Rear torsion bar - lubricate 20.3

- Kombi
- Product used
- Multi-purpose grease <u>→ page 9</u>





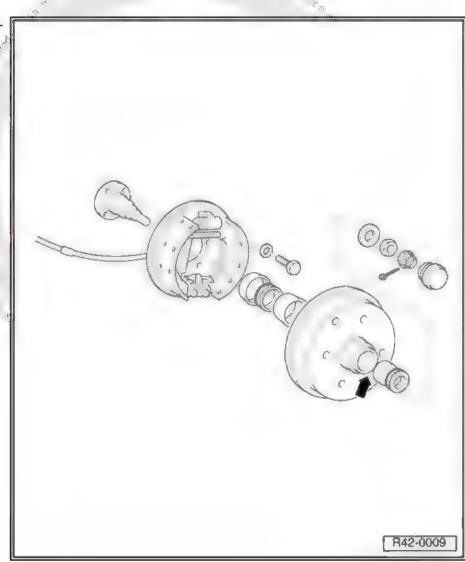
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Rear wheel hub - lubricate 20.4

- Gol, Parati, Saveiro and San-
- Product used
- Multi-purpose grease
 ⇒ page 10





20.5 Rear wheel hub seal - lubricate

- Kombi
- -Product used
- Multi-purpose grease page 10



Chemicals Manual - Edition 02.2016 Rear wheel bearing - lubricate 20.6

- Kombi
- Product used
- Multi-puroose grease <u>→ page 18</u>





Repair Group - 46 - Brakes - Mechan-21 ical systems



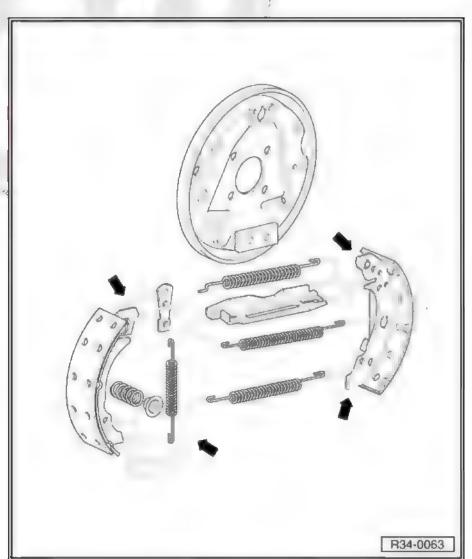
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

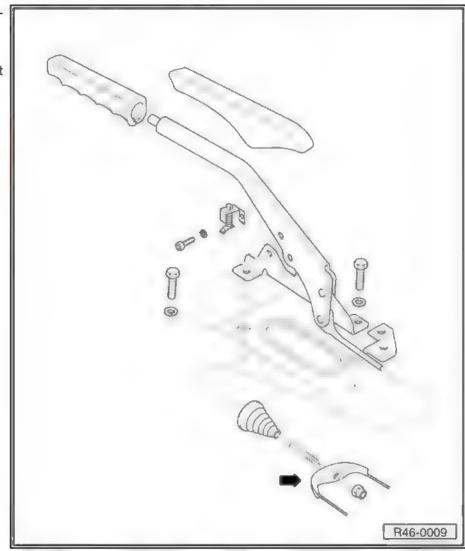
21.1 Rear wheel brake shoe ends - lubricate

- Gol, Parati, Saveiro, Santana and Kombi
- Preduct used
- Complex grease <u>⇒ page 10</u>



21.2 Handbrake cable terminal - lubricate

- Gol, Parati, Saveiro and San-
- Product used
- Lubricating paste for constant velocity joints <u>→ page 13</u>

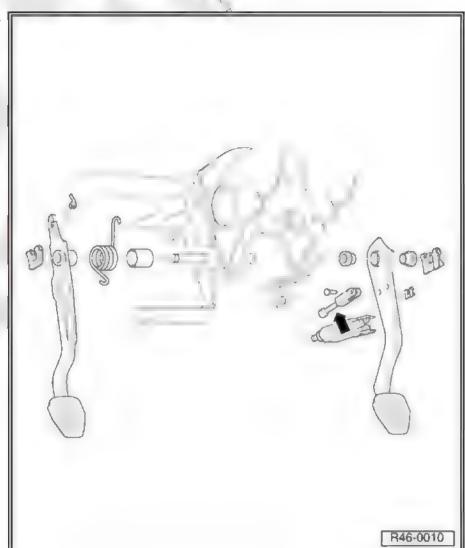


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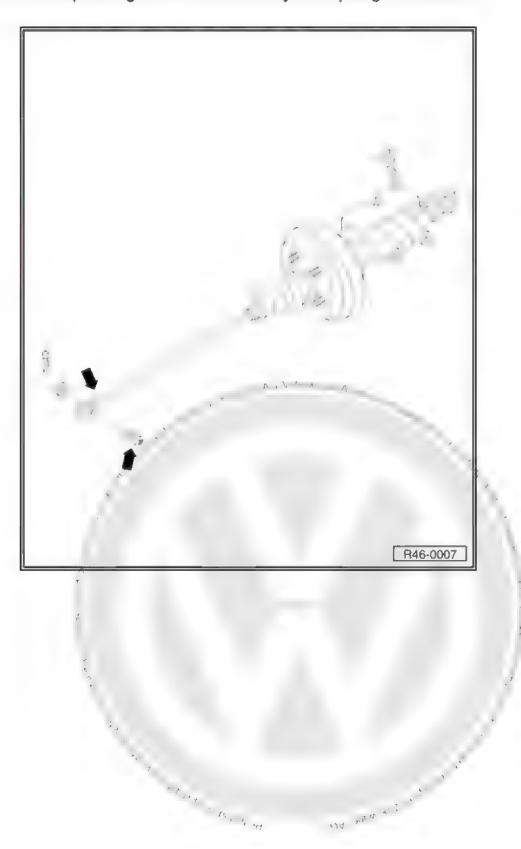
21.3 Brake pedal safety pin - lubricate

- Sol, Parati, Saveiro and Santana
- Product used
- White lubricating grease
 ⇒ page 20



21.4 Securing pin for the operating rod of the master cylinder plunger - lubricate

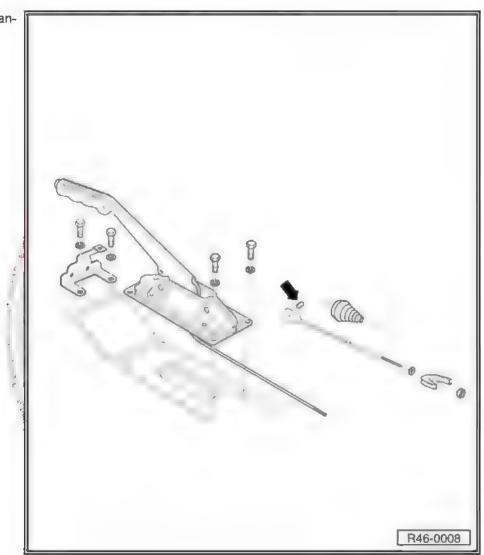
- Kombi
- Product used
- Multi-purpose grease <u>→ page 9</u>





21.5 Securing pin of the handbrake lever - lubricate

- Gol, Parati, Saveiro and San-
- Product used
- Multi-purpose grease <u>→ page 10</u>



21.6 Handbrake ratchet - lubricate

- Kombi
- Product used
- Multi-purpose grease <u>→ page 10</u>



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Repair Group - 47 - Brakes - Brake 22 servo hydraulic system

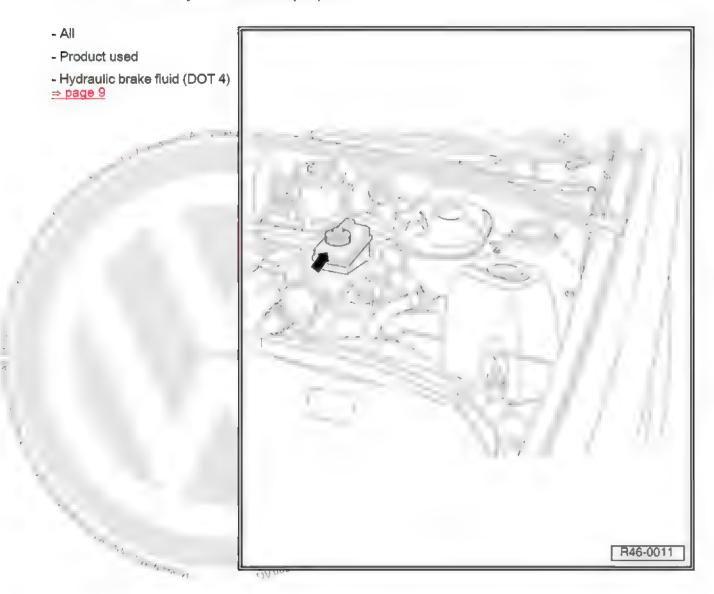


WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

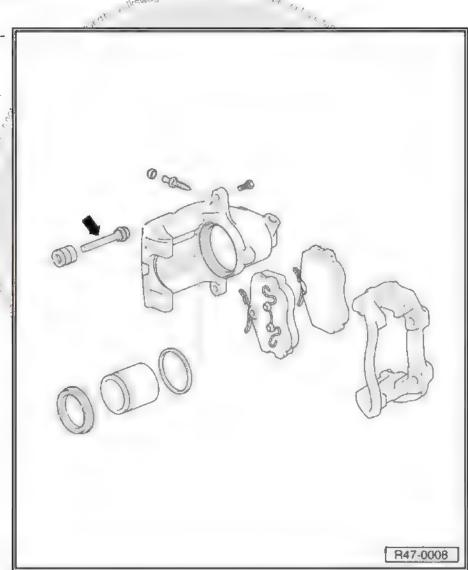
Observe the information in Chapter "Work Instructions for Handling Chemicals".

22.1 Brake system - fill / top up



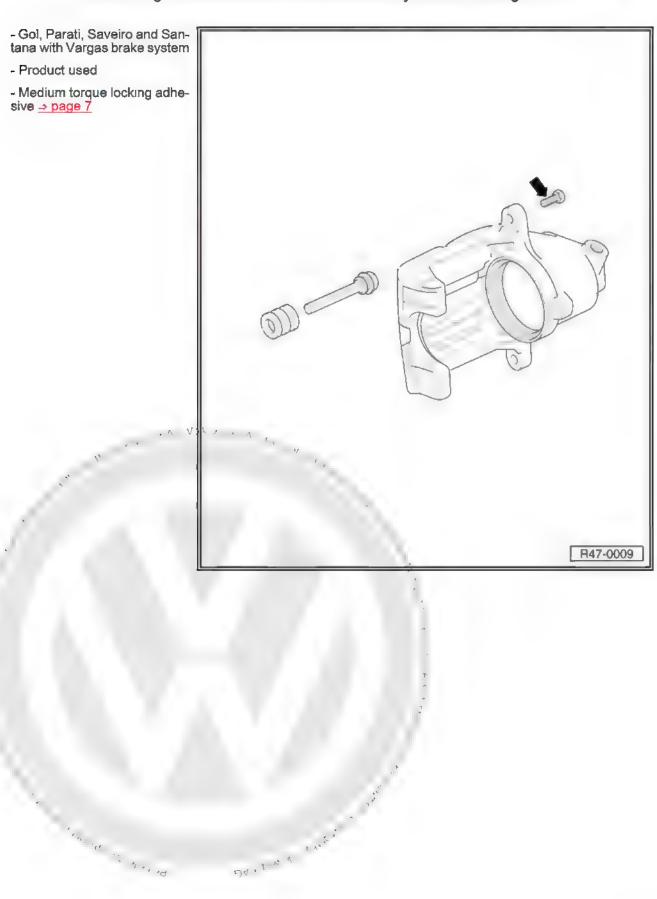
22.2 Guide pin for the support of the front disc brake cylinder (manufactured by Ne Horit Globs and A., .x Varga) - lubricate

- Gol, Parati, Saveiro and San-
- Product used
- Grease for front wheel cylinder support guide pin ⇒ page 10





Fastening screw for the front disc brake cylinder housing - lock 22.3



23 Repair Group - 48 - Steering



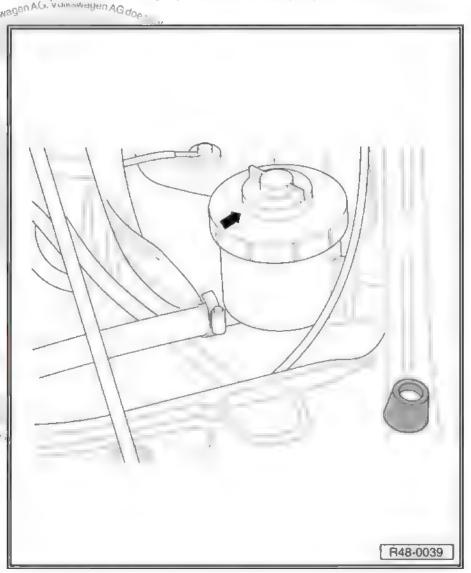
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legis-lation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

Oil reservoir for the power steering system - Fill / top up oil level 23.1

- Santana ⁽¹⁾, Gol ⁽²⁾, Parati, Saveiro, Polo ⁽³⁾ and Fox ⁽³⁾
- (1)Chassis numbers up to SP055380, and from 2P006394 onwards
- (2) Except exports to Russia and Kazakhstan
- (3)Without hydraulic power steering
- Product used
- Power steering oil 325 029 901 g- ⇒ page 19

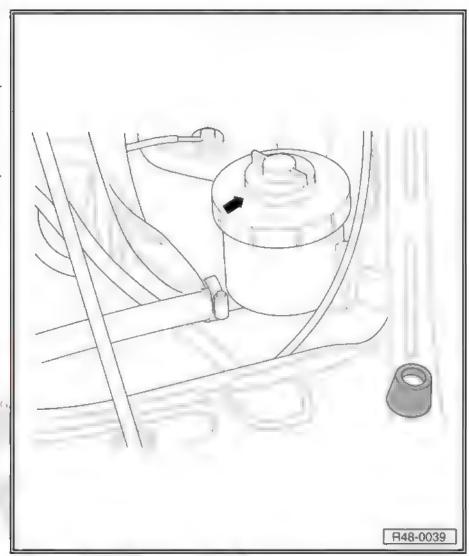




23.2 Oil reservoir for the power steering system - fill / top up oil level

rid in a way.

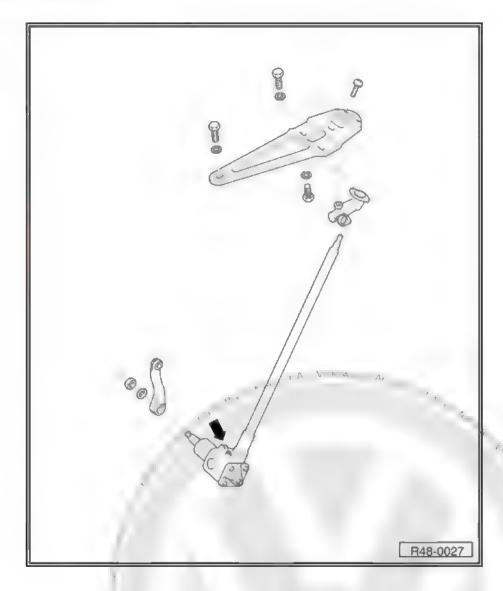
- Santana $^{(1)}$, Gol $^{(2)}$, Golf, Passat, Polo Classic, Fox $^{(3)}$, Polo $^{(3)}$ and Saveiro $^{(4)}$
- (1)From chassis number SP055381, to chassis number 2P006393.
- (2) Export to Russia and Kazakhstan.
- (3)With electric power steering.
- ⁽⁴⁾As from chassis number 24000001 (made in Curitiba).
- Product used
- Power steering oil G 004 000 M2- ⇒ page 19



23.3 Steering box - Fill / top up level

- Kombi
- Product used
- Steering box oil SAE 90, MIL-L-2105B, API-GL5 ⇒ page 17





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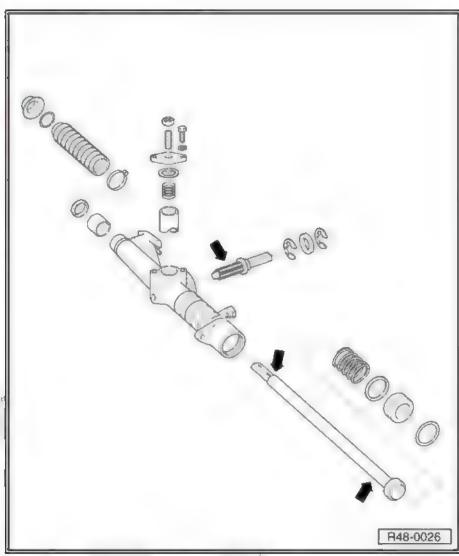
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Steering box mechanism - lubricate 23.4

- Gol, Parati, Saveiro and San-

- Product used
- Semi-fluid grease <u>→ page 9</u>

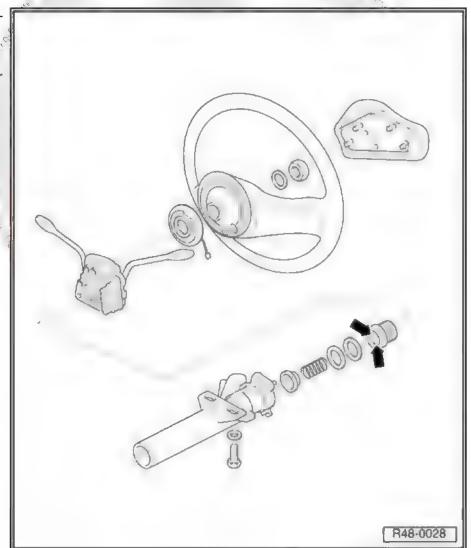


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23.5 Adapter (sleeve) for the upper steering shaft - lock

- Gol, Parati, Saveiro and San-
- Product used
- Medium torque locking adhesive <u>→ page 7</u>





Repair Group - 53 - Body Rear second 24 tion



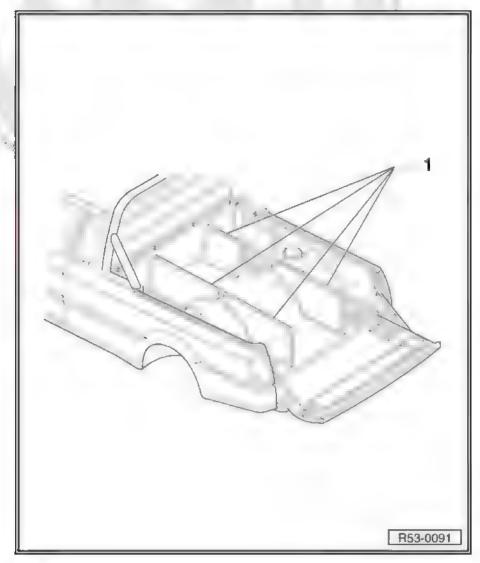
WARNING

Check the regulations of the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

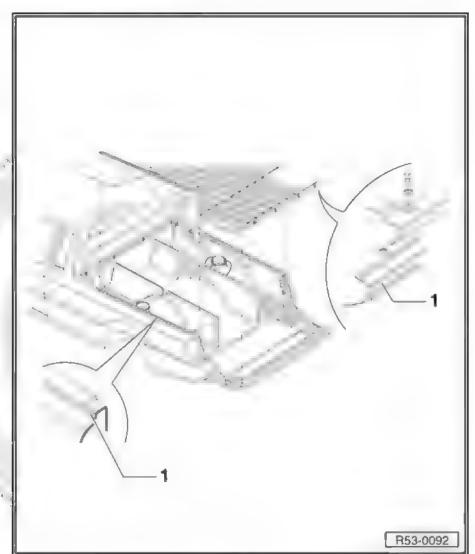
24.1 Bucket sealing membrane - glue

- Saveiro
- Product used
- Transferable adhesive tape ⇒ page 8



24.2 Rear side panel - protect the paint

- Saveiro
- Product used
- Polyurethane adhesive tape ⇒ page 8
 - 1 Polyurethane adhesive tape



Repair Group - 55 - Covers 25



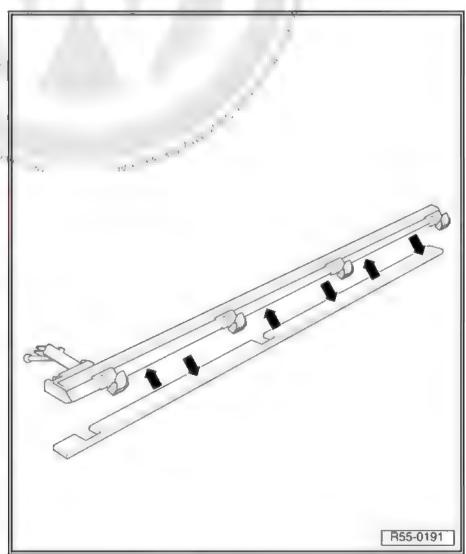
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals ".

Bucket protective cover longitudinal member - glue the finishing 25.1

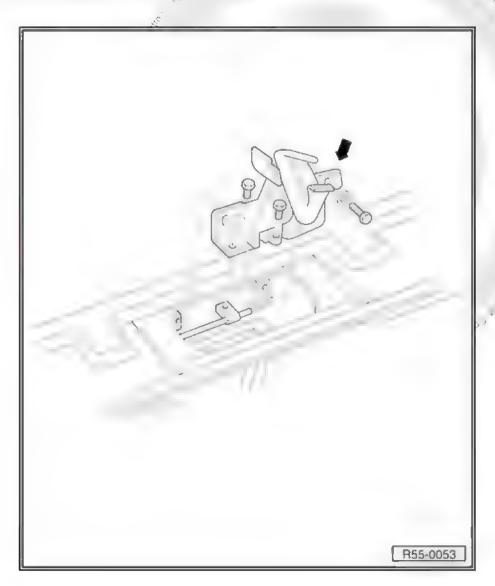
- Saveire
- Product used
- Adhesive for finishing and lining <u>⇒ page 6</u>





25.2 Lower latch of the bonnet - lubricate

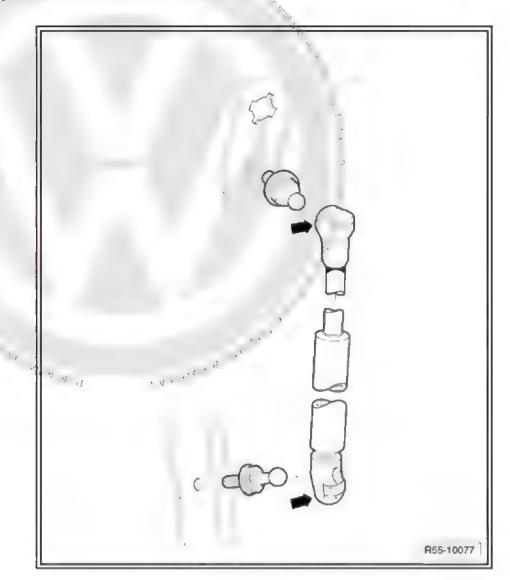
- All (except Kombi)
- Product used
- Multi-purpose grease <u>→ page 9</u>





Damper eyelet for the rear cover - lubricate 25.3

- All
- Product used
- Lubricating grease <u>→ page 10</u>



Repair Group - 57 - Front doors / 26 components / central lock

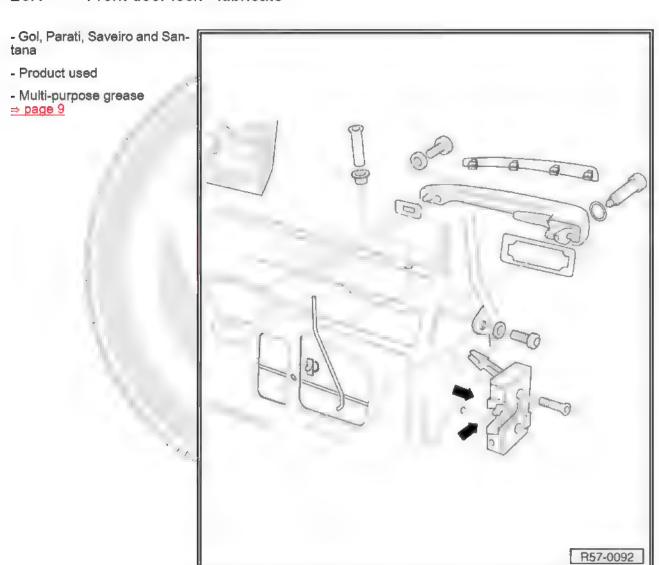


WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

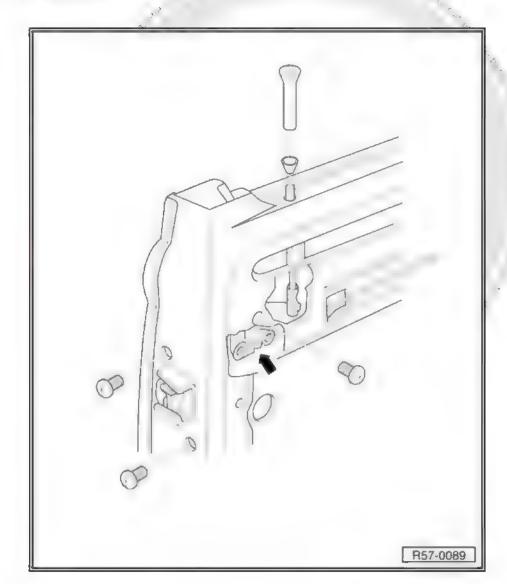
26.1 Front door lock - lubricate





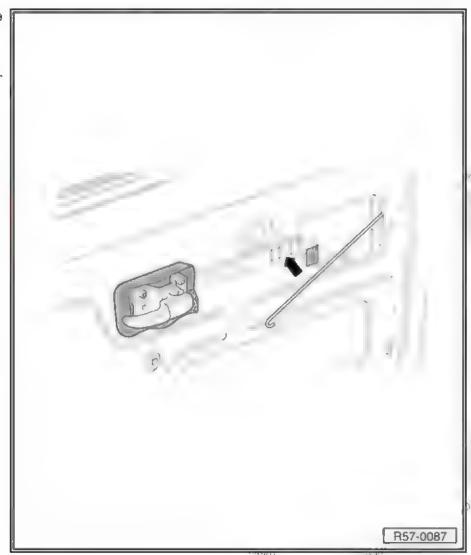
26.2 Lock drive rod - lubricate

- Kombi
- Product used
- Multi-purpose grease <u>→ page 9</u>



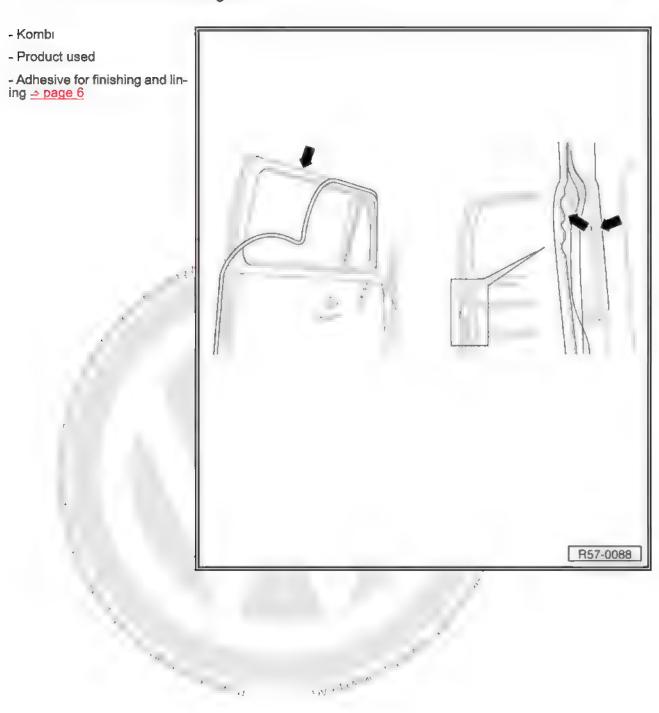
26.3 Noise insulation for lock operating rod - glue

- All (except vehicles with cable operation)
- Product used
- Adhesive for finishing and lining → page 6





26.4 Inner door seal - glue



27 Repair Group - 58 - Rear doors / components



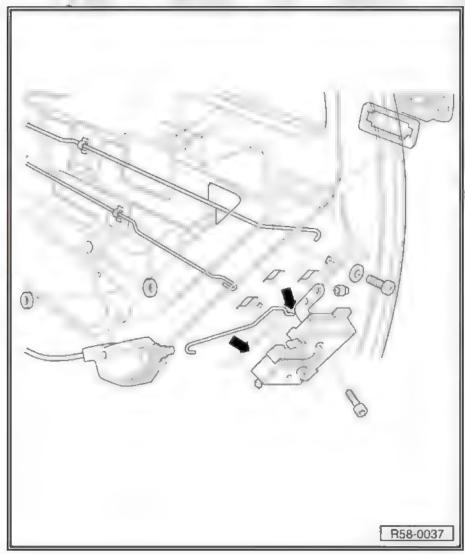
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

27.1 Rear door lock - lubricate

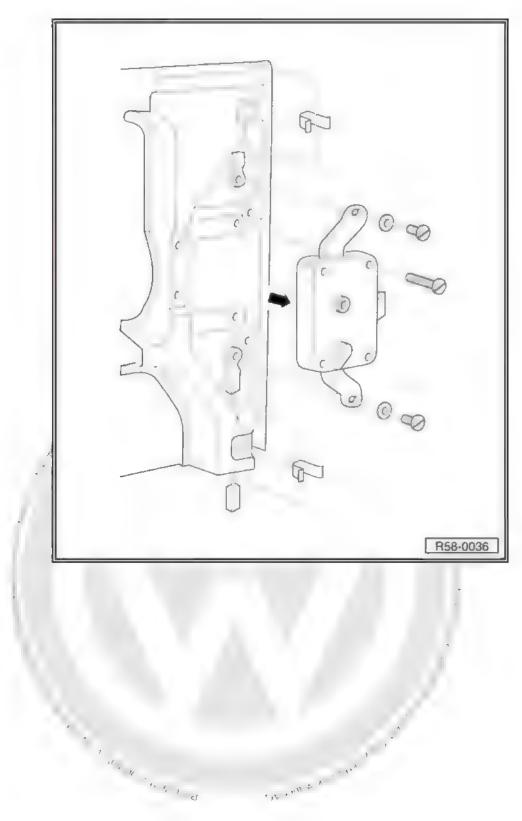
- Gol, Parati, Saveiro and San-
- Product used
- Multi-purpose grease ⇒ page 9





27.2 Side door lock - lubricate

- Kombi
- Product used
- Multi-purpose grease <u>→ page 9</u>



Repair Group - 64 - Windscreens 28 windows, window mechanism



WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

28.1 Door window activation mechanism - lubricate

- Gol, Parati, Saveiro and Santana
- Product used
- Multi-purpose grease
- ⇒ page a





Vent window latch - lubricate 28.2

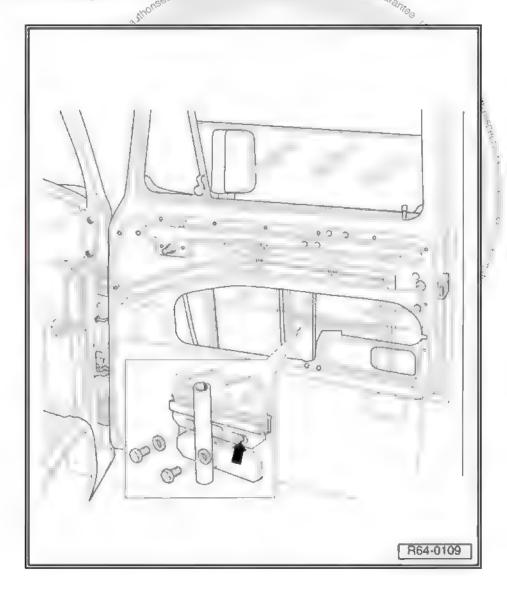
- Kombi
- Product used
- Multi-purpose grease <u>→ page 9</u>





Front door window support - lubricate 28.3

- Kombi
- Product used
- Multi-purpose grease <u>→ page 9</u>





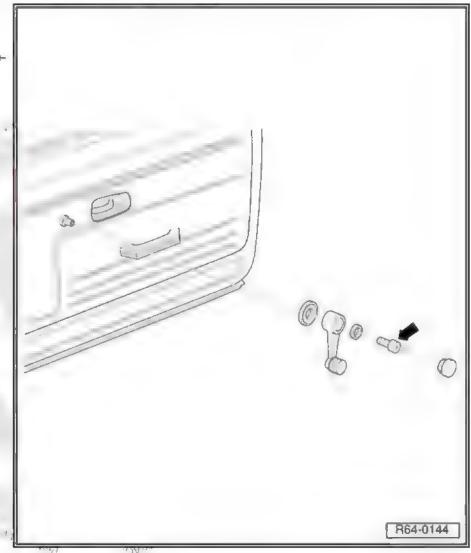
Front door window activation mechanism - lubricate 28.4

- Kombi
- Product used
- Multi-purpose grease <u>→ page 9</u>



28.5 Window crank fastening screw - lock

- All (fastened with screw)
- Product used
- Medium torque locking adhesive <u>→ page 7</u>

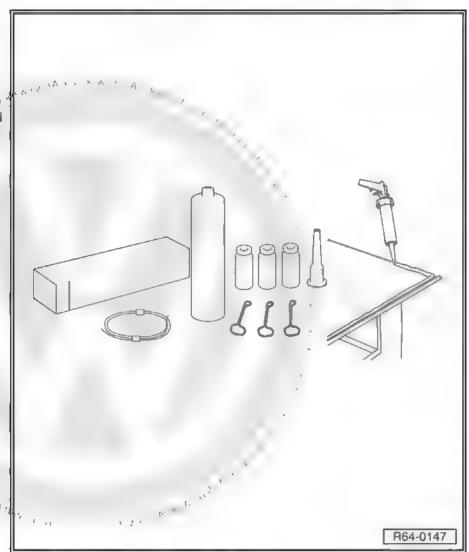




Windscreen, side window glass and rear window glass - glue 28.6

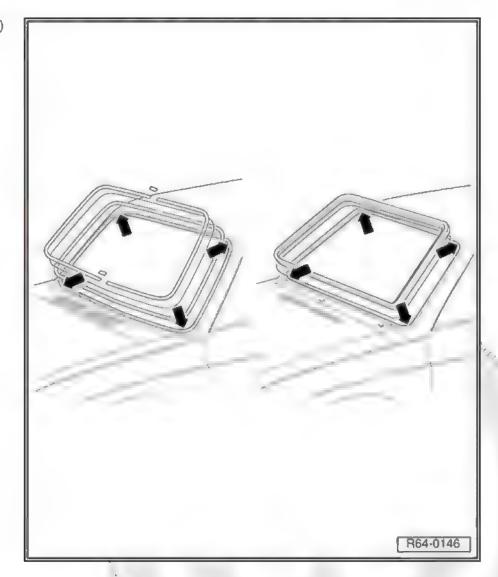
- All (except windows with packing)
- Product used
- Glass adhesion kit
 - Total drying time:

U-400 HVBN Adhesive partial 3 h, total 72 h / 5500SA Primer : 15 min



28.7 Windscreen, side window glass and rear window glass - seal

- All (except glued windows)
- Product used
- Sealing compound
 ⇒ page 13



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28.8 Glass - engrave chassis number

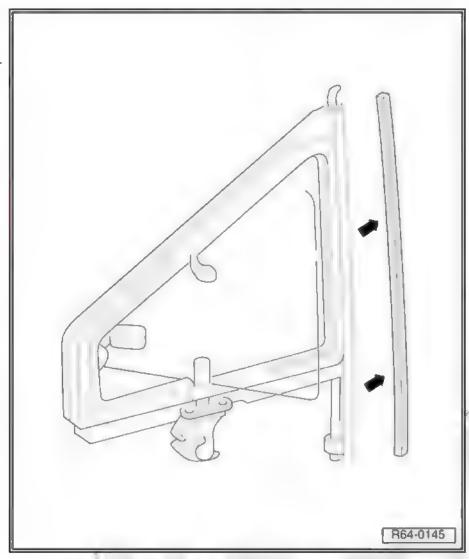
- All
- Product used
- Corrosive paste ⇒ page 21
 - ☐ The destructible labels -VIS are only supplied exclusively to the governmental traffic-related bodies (Detrans / Ciretrans) or Security bodies (Police Station). On the Network Website, under "After Sales Service", "Services Information System" Memorandum no. 98/09 of 06/16/2009 can be found "Engraving the chassis number (VIS) on windows .

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28.9 Front and rear door window guide groove - glue

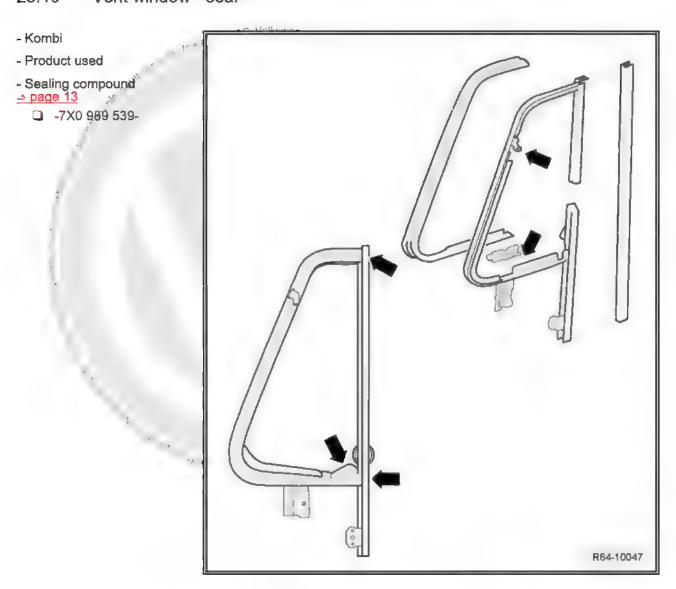
- Kombi
- Product used
- Adhesive for finishing and lin-ing <u>→ page 6</u>



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Vent window - seal 28.10



29 Repair Group - 66 - External equipment

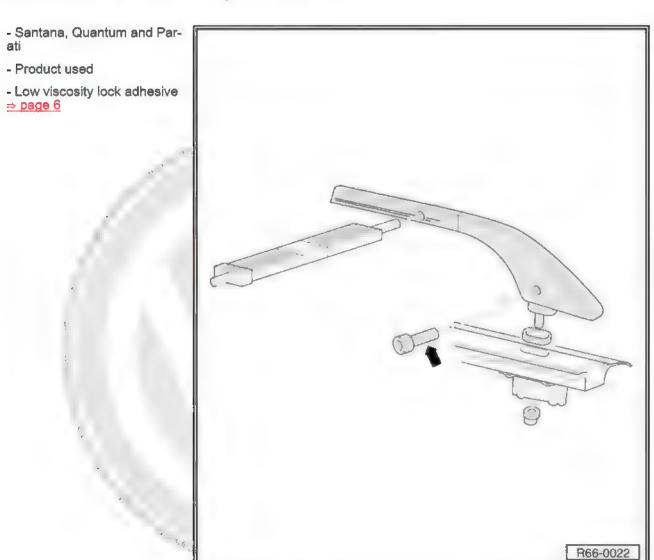


WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

29.1 Roof rack fastening screws - lock





30 Repair Group - 68 - Internal equipment



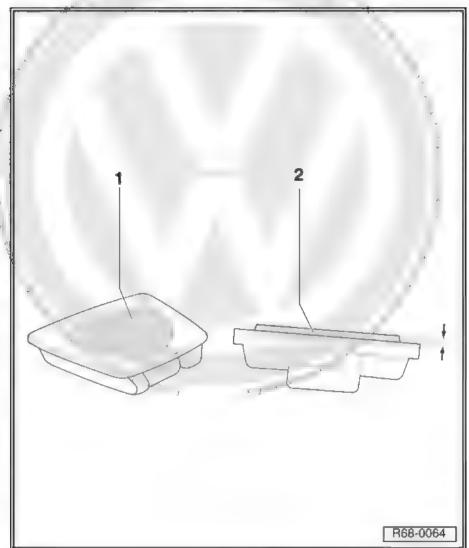
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legis-lation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals ".

30.1 Interior rearview mirror support - fasten

- Santana
- Product used
- 2-component adhesive ⇒ page 7
 - First mix the blue and red adhesives, in equal parts. Then, apply this mixture onto the interior rearview mirror support (detail A), leaving a small protrusion of adhesive (not more than 0.5 mm) to ensure con? tact with the windscreen. Surfaces must be free of oil residues.
- 1 Adhesive
- 2 Adhesive applied in embossing



Repair Group - 70 - Lining/insulation 31



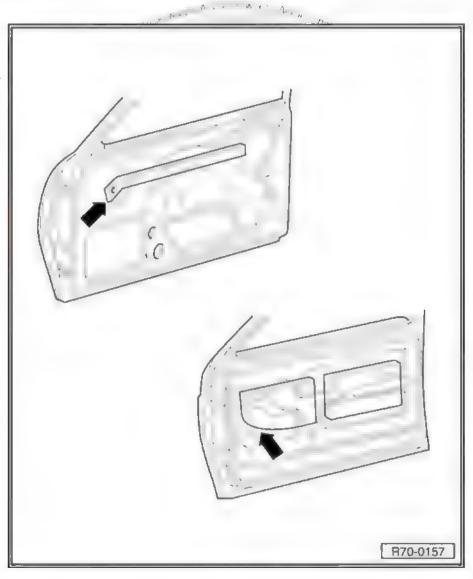
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

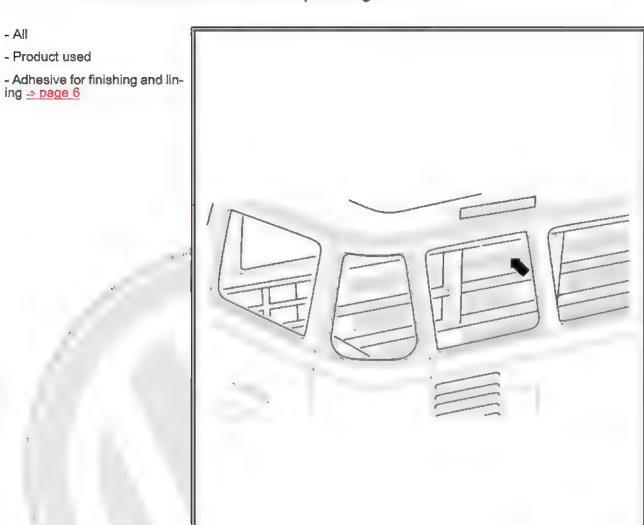
31.1 Door noise insulation - glue

- All
- Product used
- Adhesive for finishing and lining ⇒ page 6





31.2 Noise insulation on rear side panel - glue

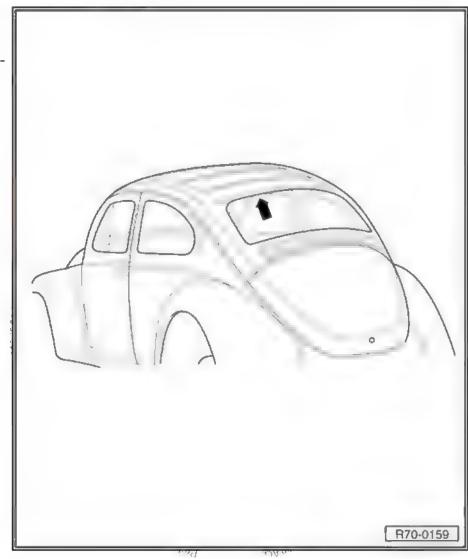


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R70-0158

31.3 Roof noise insulation - glue

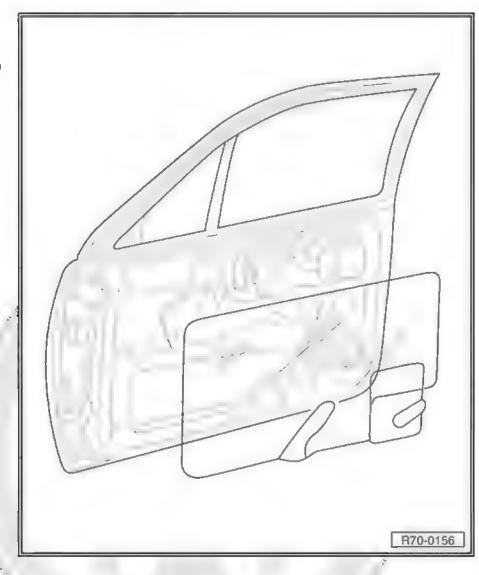
- All
- Product used
- Adhesive for finishing and lin-ing <u>→ page 6</u>





31.4 Door sealing membrane - glue

- All (except Golf and Polo)
- Product used
- Transferable adhesive tape ⇒ page 8



Repair Group - 72 - Seat framework 32



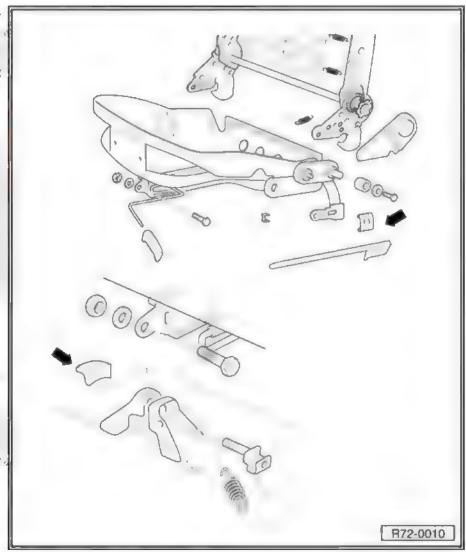
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals ".

Front seat central sliding guide - lubricate 32.1

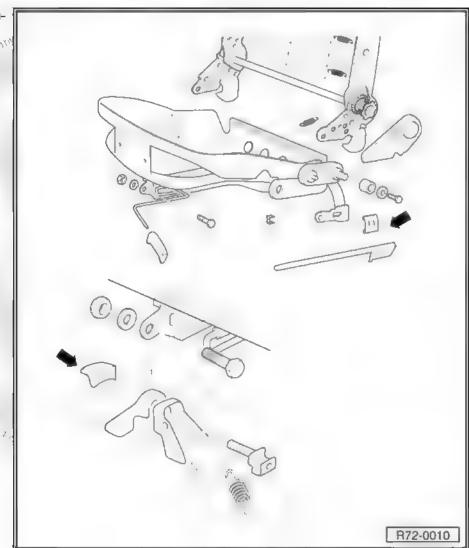
- Gol, Parati, Saveiro and Santana
- Product used
- Lubricating paste for constant velocity joints page 13





32.2 Front seat side sliding guide - lubricate

- Gol, Parati, Saveiro and San-
- Product used
- Solid vaseline



Repair Group - 87 - Air conditioning 33



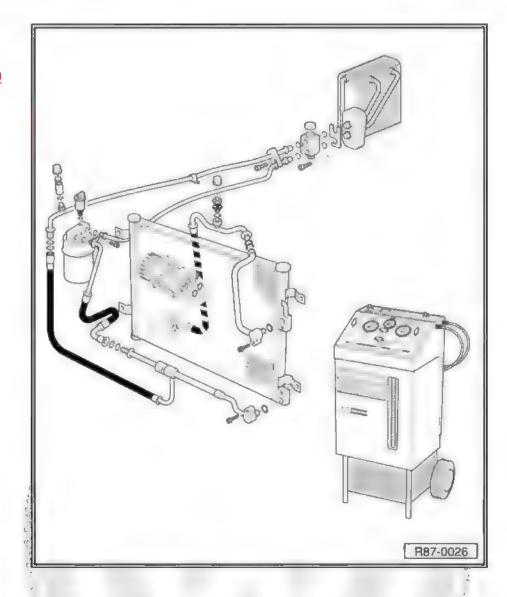
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals ".

33.1 Air conditioning system - refill with gas

- All
- Product used
- Refrigerant gas <u>⇒ page 9</u>

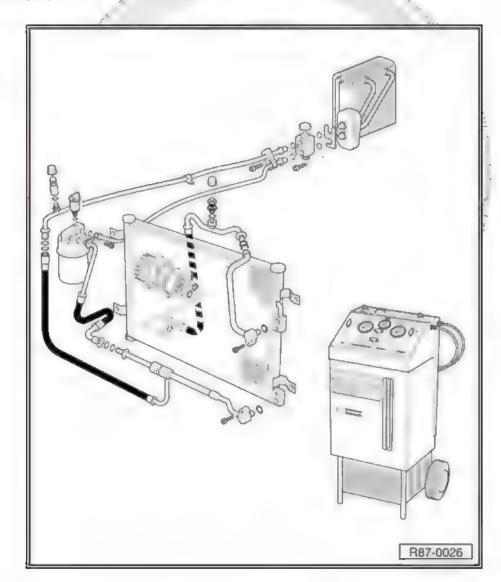


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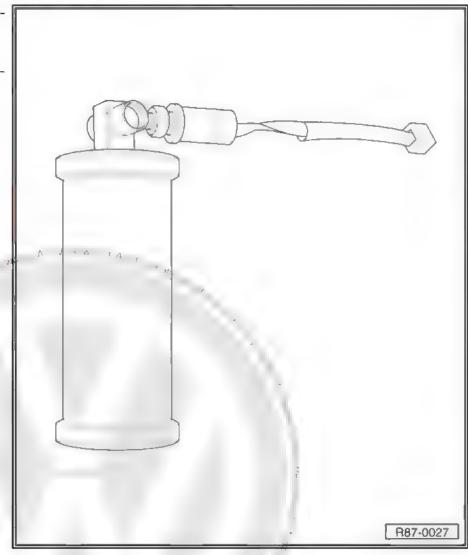
33.2 Air conditioning system - refill with oil

- All
- Product used
- Oil for the air conditioning compressor <u>→ page 19</u>



33.3 Air conditioning pressure switch - seal

- Gol, Parati, Saveiro and San-
- Product used
- Medium torque locking adhesive <u>⇒ page 7</u>





34 Repair Group - 92 - Windscreen, rear window and headlight wiper and washer



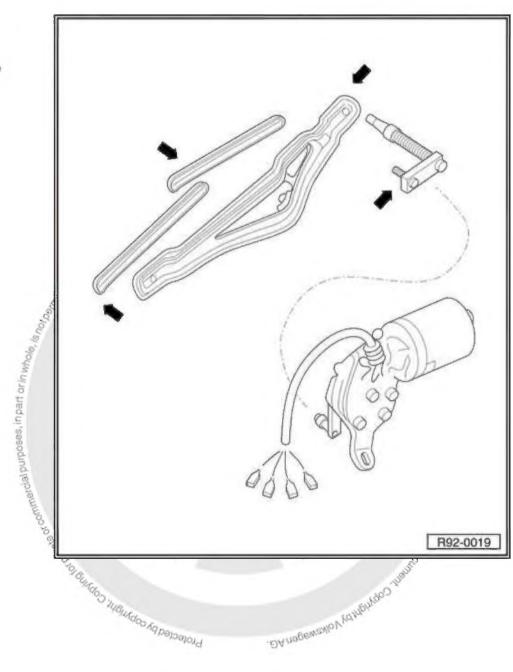
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

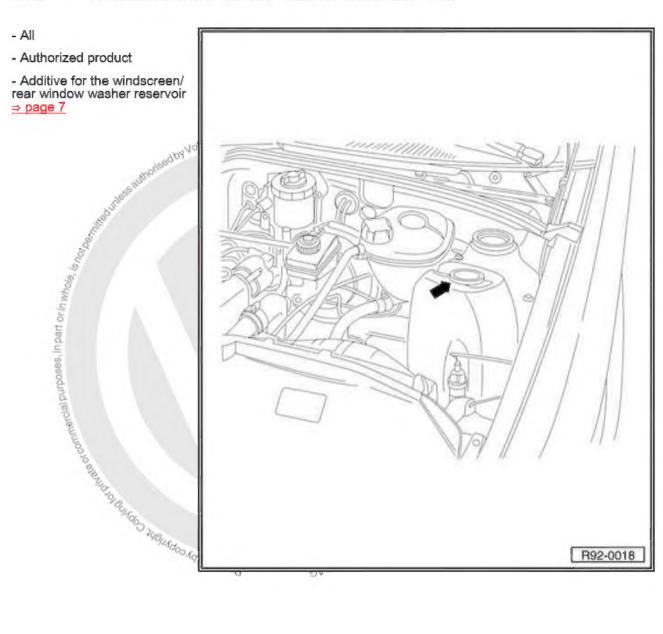
Observe the information in Chapter "Work Instructions for Handling Chemicals".

34.1 Windscreen wiper operating rod - lubricate

- Kombi
- Authorized product
- Multi-purpose grease ⇒ page 9



34.2 Windscreen/rear window washer water tank - fill



35 Repair Group - 94 - Switches, lights, and external bulbs



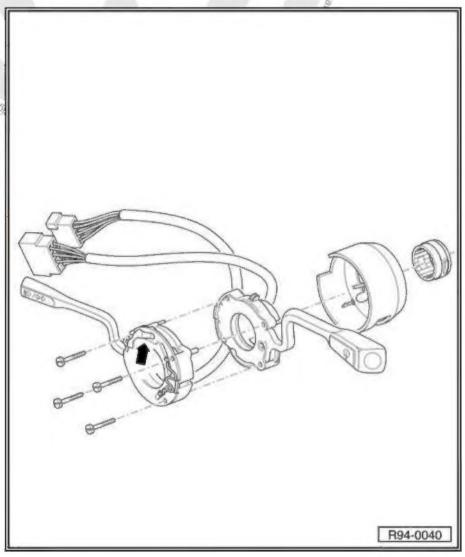
WARNING

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legislation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals".

35.1 Contact blade for turn signal switch

- All
- Authorized product
- Grease for electrical contacts ⇒ page 11



Repair Group - 97 - Cables and elec-36 trical harnesses



WARNING olkswagen AG. Volkswagen AG does not guara

Check the regulations on the disposal of each product and packaging as per manufacturer's guidelines and current legis-lation at local, state and federal level.

Observe the information in Chapter "Work Instructions for Handling Chemicals ".

36.1 Gaskets for the plastic covers that cover the electric harnesses - seal

